





Contact us for brand new, refurbished or used IGOYE Equipment AGS-TECH Inc.

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SOLAR PRODUCT CATALOG

Empower the world with solar energy





ABOUT THE COMPANY

IGOYE has been a leading solar system equipment supplier for many years. Founded in 2007, we have - for 15 years - shipped solar equipment all over the world. Our products are utilized in a range of applications, such as commercial and industrial solar installations, grid tie and off-grid systems, residential rooftop systems and more.



We have a proven track record in providing quality equipment that meets the latest industry standards. Our experience in product design and manufacturing is also extensive, and we can help you find what fits your specific project, including customized solar system components.



Commercial and industrial solar installations



Grid tie and off-grid systems



Residential rooftop systems























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Energy 4.6KWH~13.82KWH



Cycle Life



Service Life

Split Type Residential ESS (Battery)

	Model	IESC-13.82	IESC-9.21	IESC-4.6		
	Battery Type		LiFePO4			
	Nominal Energy (kWh) @25	13.82	9.21	4.6		
	Nominal Voltage (V)		51.2			
	Voltage Range (V)		44.8~57.6			
Custom	Max. Charge Current (A)	110	110	90		
System Data	Max. Discharge Current (A)	110	110	90		
Data	Match Inverter Power (kW)	5	5	3		
	SOC		Intelligent Algorithm			
	Communication		CAN/RS485			
	Protective function	Over Voltage Protection, Low Voltage Protection, Over Current Protection, Over Temperature Protection, Low Temperature Protection, Short Circuit Protection, Reverse Polarity				
	DC Circuit Breaker		Yes			
	Dimension [W*D*H] (mm)	600X190X1500	600X190X1050	600X190X600		
	Weight (kg)	≤180	≤126	≪67		
	Installation Location		Indoor / Outdoor			
	Mounting Method	Floor-mounted	Floor-mounted	/ Wall-mounted		
	Operating Temperature (°C)		-10~55			
General	Storage Temperature (°C)		-20~45			
Data	Humidity		5%~95%			
	Ingress Rating		IP65			
	Maximum Elevation (m)		2000			
	Cooling Strategy		Natural Convection			
	Single BMS Power Consumption		<2W (Work), <50mW (Sleep)			
	Life Span (year)	10				
	Maximum Parallel Connections		2			
	Compliance	IEC 62619, IEC 63056,	IEC 62040-1, IEC 61000-6-1, IEC	C 60068-2-52, UN38.3		



Easy Installation: Support two installation methods: landing and wall hanging.



High Security: Use LiFePO4 battery inner core, which has higher safety and longer cycle life.



Wide Application Scenarios: Both ongrid, off-grid, and backup power functions. Support peak load shifting, power generation used by self, battery priority and other modes.



Easy Maintenance: External interface adopts quick plug connector.





All-in-one ESS







Energy 4.6KWH~18.43KWH



Cycle Life



Service Life 10 YEARS

All-in-one Residential ESS (Hybrid Inverter + Battery)

	Model	IESC-18.43	IESC-13.82	IESC-9.21	IESC-4.6	
	Max. PV Input Power (W)	7000	7000	7000	4600	
PV Input	Max. PV Input Voltage (V)	500				
	Startup Voltage (V)	150				
	MPPT Voltage Range (V)		125~	-500		
	Nominal Input Voltage (V)		36	60		
	Max. PV Input Current (A)		1	4		
	Max. Short-circuit Current (A)		1			
	No. of MPPT Trackers		2			
	Strings Per MPPT Tracker		1			
	Nominal AC Power (W)	5000	5000	5000	3000	
AC.	Max. Apparent AC Power (W)	5000	5000	5000	3000	
nput	Nominal AC Voltage [range] (V)	230 (176~270)	230(176~270)	230(176~270)	230(176~270)	
nd	Frequency (Hz)	50/60	50/60	50/60	50/60	
	Max. AC Current (A)	21.7	21.7	21.7	13	
output	Displacement Power Factor		0.8Leading			
	Total Harmonic Distortion			2%		
	Nominal Power (W)	5000	5000	5000	3000	
	Max. Power (W)	5000	5000	5000	3000	
	Rated Voltage[AC] (V)	230	230	230	230	
PS	Frequency (Hz)	50/60	50/60	50/60	50/60	
	Max. AC Current (A)	21.7	21.7	21.7	13	
Output	Switch Time		10			
	Total Harmonic Distortion			2%		
	Parallel Operation		Ye - /6:			
	Compatible with The Generator		Yes (Signal p			
fficiency	European Efficiency		97			
incicitcy	Max. Efficiency		97.			
	Battery Type		LiFe			
	Battery Voltage Range (V)		44.8			
Battery	Nominal Voltage (V)	05/110	51		05/60 5	
Data	Max. Charge/Discharge Current (A)	95/110	95/110	95/110	95/62.5	
	Operating / Storage Temperature		-10~55°C/			
	Communication		CAN/F			
	Reverse Polarity		Ye Natural C			
	Cooling Strategy	F00V1000V2F0	Natural Co		F00V1000V2F0	
	Dimension [W*H*D](mm)	580X1800X350	580X1800X350	580X1800X350	580X1800X350	
	Weight (kg)	≤260	≤216 50%~QI	≤150 50%	≤105	
System	Humidity	5%~95% IP20				
,	Ingress Rating					
)ata	Phase		Single - F 10	Tidase		
	Life Span (year)			E;/LAN/DDM		
	Communication Interface	CAN/RS485/WiFi/LAN/DRM EN/IEC 61000-6-1, EN/IEC 61000-6-3/A1/AC, EN/IEC 62109-1, EN/IEC 62109-2, AS/NZS 4777.2				
	Compliance	EIN/IEC 01000-0-1, EIN/IEC	5 0 1000-6-3/A1/AC, EN/	IEC 02109-1, EN/IEC 02	2109-2, A5/NZ5 4/1/.	

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IESC

Energy storage cube

Application

- Hospital, Bank, Airport, Power plant and Other Systems
- Solar energy storage cabiner
- Long-last UPS battery
- Telephone Switch, Telecom Room SMR, Hospitals

Banks and large and medium-sized enterprises application distributed server room independent UPS

	Model	IESC10L	IESC15L	IESC20L	
	Rate voltage(VDC)	48	48	48	
	Module rate capacity(AH)	100	100	100	
	Built in module quantity	2	3	4	
	Energy storage(KWH)	9.6	14.4	19.2	
Electrical Characteristics	Cycle life	DOD(≥1800 cycles to 85% DOD)			
	Months self discharge	≤2%			
	Efficiency of charge		100% at 0.2C		
	Efficiency of discharge		96~99% at 1C		
	Built in BMS(Yes/No)		YES		
	Charge voltage(Vdc)	54.8±0.2V			
	Charge mode	0.2C to 54.8V, then 54.8V, charge current to 0.02C(CC/CV)			
Electrical Characteristics	Charge current(A)	40	60	80	
	Max. Charge current(A)	60	90	120	
	Charge cut-off voltage(Vdc)	54.8±0.2V			
Standard	Contiunous current(A)	60	90	120	
Charge	Discharge cut-off voltage(VDC)		37.5		
	Charge temperature	0°C to 45 °C (3	32F to 113F)@60±25% Rela	ative Humidity	
Environmental	Discharge temperature	-20°C to 60 °C	(-4F to 140F)@60±25% Re	lative Humidity	
Liviloiiiichtai	Storage temperature	0°C to 40 °C (3	32F to 104F)@60±25% Rela	ative Humidity	
	IP class		IP60		
	Material system		LiFePO4		
	Case material		Metal		
Mechanical	Dimensions: H*W*D(mm)	1050*600*600			
Modifical	Termial		M8		
	Protocol(Optional)		SMBus/RS485/RS232		
	SOC(Optional)	LED/LCD			



IESC

Energy storage cube

Application

- Hospital, Bank, Airport, Power plant and Other Systems
- Solar energy storage cabiner
- Long-last UPS battery
- Telephone Switch, Telecom Room SMR, Hospitals

Banks and large and medium-sized enterprises application distributed server room independent UPS

	Model	IESC10H	IESC15H	IESC20H	
	Rate voltage(VDC)	51.2	51.2	51.2	
	Module rate capacity(AH)	200	150	200	
	Built in module quantity	2	4	4	
	Energy storage(KWH)	10.24	15.36	20.48	
Electrical Characteristics	Cycle life	DOD(≥1800 cycles to 85% DOD)			
	Months self discharge		€2%		
	Efficiency of charge		100% at 0.2C		
	Efficiency of discharge		96~99% at 1C		
	Built in BMS(Yes/No)		YES		
	Charge voltage(Vdc)		54.8±0.2V		
	Charge mode	0.2C to 54.8V, then 54.8V, charge current to 0.02C(CC/CV)			
Electrical Characteristics	Charge current(A)	40	60	80	
	Max. Charge current(A)	60	90	120	
	Charge cut-off voltage(Vdc)		54.8±0.2V		
Standard	Contiunous current(A)	60	90	120	
Charge	Discharge cut-off voltage(VDC)		40		
	Charge temperature	0°C to 45 °C (3	2F to 113F)@60±25% Rela	ative Humidity	
Environmental	Discharge temperature	-20°C to 60 °C (-4F to 140F)@60±25% Rel	lative Humidity	
Environmental	Storage temperature	0°C to 40 °C (3	2F to 104F)@60±25% Rela	ative Humidity	
	IP class		IP60		
	Material system		LiFePO4		
	Case material	Metal			
Mechanical	Dimensions: H*W*D(mm)	1050*600*600			
	Termial	M8			
	Protocol(Optional)		SMBus/RS485/RS232		
	SOC(Optional)	LED/LCD			









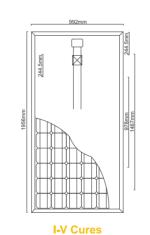
IYSP-250M~300M

Monocrystalline **Solar Module**

Mechanical Data		
	IYSP-250M	IYSP-300M
Cell type	Mono156.75mm*156.75mm	Mono156.75mm*156.75mm
No.of cells	ells 60 in series(6*10) 72 in series(6*12)	
Dimensions	1650*992*35mm	1956*992*35mm

Waranty and Certifications		
Warranty	25 years limited power warranty	
	10 years limited product warantty	
Certificats	safety class II ,IEC61215, IEC61730	

Electrical Data		
(STC: Irradiance 1000w/n	n², module temperate 25°	C, AM=1.5)
Power	250WP	300WP
Open circuit voltage(Voc)	36.91V	44.63V
Max. power voltage(Vmp)	30.73V	37.02V
Short circuit current(Isc)	9.03A	9.23A
Max. power voltage(Imp)	8.14A	8.11A
Power Tolerance	±3%	±3%
Max. system voltage	1000V	1000V
Operating temp.	-40°C~85°C	-40°C~85°C
NOCT	47±2°C	47±2°C
Temp. coefficient Isc	0.06%/°C	0.06%/°C
Temp. coefficient Voc	-0.34%/°C	-0.34%/°C
Temp. coefficient Power	-0.42%/°C	-0.42%/°C











100 persons more than 15 2010 year

Capacity: 800MW/Year





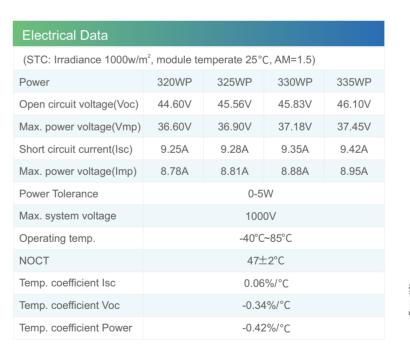


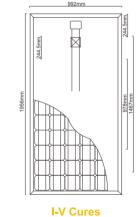


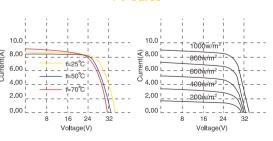
IYSP-320P~335P

Polycrystalline Solar Module

Mechanical Data		Waranty and	25 years limited power warranty	
Cell type	Poly 156.75mm*156.75mm	Warranty	25 years limited power warranty	
No.of cells	72 in series(6*12)	vvairanty	10 years limited product warantty	
Dimensions	1956*992*40mm	Certificats	safety class II ,IEC61215, IEC61730	









Employees:



100 persons more than 15 2010 year







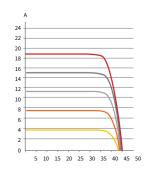
IYSP-HC650M~660M

Monocrystalline Solar Module

Data	
Cell	Mono PERC 210mm*210mm
Dimensions	2384*1098*35mm
No. of cells	110(5*22)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission
Frame	Anodized Aluminium Alloy
Junction Box	IP67 Rated
Packaging	31pcs per Pallet
Cable	1x4.0mm ² , 30cm Length or Customized Length

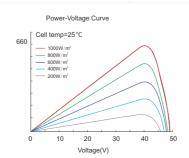
284mm	Н	32	0	-
_	Side		Back	

Ch	naracteristics
A	4
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4	1111
2	1111
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	5 10 15 20 25 30 35 40 45 50



Operating Conditions			
Maximum System	Voltage 1000V/1500V DC(IEC)		
Operating Temp	-40°C~+85°C		
Maximum Series Fuse	20A		
Maximum Static Load, Front	5400Pa		
Maximum Static Load, Back	2400Pa		
NOCT	45±2°C		
Safety Class	Glass II		

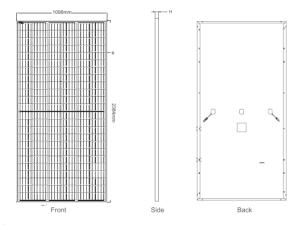
Electrical Parameters at stc			
Max. Power(Pmax)	650W	655W	660W
Max. Power Voltage(Vmp)	37.40V	37.6V	37.8V
Max. Power Current(Imp)	17.38A	17.42A	17.46A
Open-circuit Voltage(Voc)	45.2V	45.4V	45.6V
Short-circuit Current(Isc)	18.46A	18.49A	18.55A
Module Efficiency(%)	20.9%	21.1%	21.2%
Power Tolerance	0~+5W		
Temperature Coefficients of Pmax	-0.55%/°C		
Temperature Coefficients of Voc	-0.29%/°C		
Temperature Coefficients of Isc	0.048%/°C		
STC Irradiance 1000W/m ² , Cell Temperature 25°C, AM=1.5			



IYSP-210HC540M~550M

Monocrystalline Solar Module

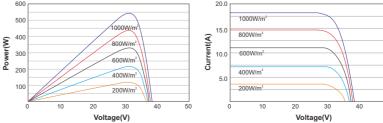
Data	
Cell	Mono PERC 210mm*210mm
Dimensions	2384*1303*35mm
No. of cells	132(6*22)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission
Frame	Anodized Aluminium Alloy
Junction Box	IP67 Rated
Packaging	31pcs per Pallet
Cable	1x4.0mm², 30cm Length or Customized Length



Characte	ristics			
600		20.0		
500	1000W/m	45.0	1000W/m²	
- 400		15.0	800W/m ²	

Operating Conditions	
Maximum System	Voltage 1000V/1500V DC(IEC)
Operating Temp	-40°C~+85°C
Maximum Series Fuse	20A
Maximum Static Load, Front	5400Pa
Maximum Static Load, Back	2400Pa
NOCT	45±2°C
Safety Class	Glass II

Electrical Parameters at stc				
Max. Power(Pmax)	540W	545W	550W	
Max. Power Voltage(Vmp)	31.20V	31.40V	31.60V	
Max. Power Current(Imp)	17.33A	17.37A	17.40A	
Open-circuit Voltage(Voc)	37.50V	37.70V	37.90V	
Short-circuit Current(Isc)	18.41A	18.47A	18.52A	
Module Efficiency(%)	20.70%	20.90%	21.00%	
Power Tolerance	0~+5W			
Temperature Coefficients of Pmax	Temperature Coefficients of Pmax -0.55%/°C			
Temperature Coefficients of Voc -0.29%/°C				
Temperature Coefficients of Isc		0.048%/°	С	
STC Irradiance 1000W/m², Cell Ter	mperature 2	25°C, AM=1	.5	











IESP

48100 ESS Battery 51.2V100AH, 5.1KWH

Battery Specifications				
	Capacity	100Ah		
0 "	Nominal Voltage	3.2V		
Cell	Dimension	49X160X118mm		
	Weight	2.0± 0.1kg		
	Combination Method	16A1P		
	Capacity	Nominal Capacity:100Ah	Minimal Capacity:(0.2C)100Ah	
	Voltage	Nominal Voltage:51.2V	Cut-off Voltage:43.2V~57.6V	
Battery parameters	Charge	Standard Charge: 0.2C(20A)	Quick Charge:0.5C(50A)	
parametere	Discharge	Discharge Current : 0~70A		
	Weight	43±1Kg		
	Dimension	482×480×133±2mm(not ii	ncluding IO ports and switch)	
	Operating Temperature	Charge:0°C~45°C	Discharge:20°C~60°C	
	Communication type	CAN for PCS,RS485 for par	allel	
Parallel	Parallel Qnt	Up to 6 units		
options	Circulation current limiting	Yes,10A		

Technical Requirements

Testing Conditions(unless otherwise specified)

Temperature:15~35 °C
Relative Humidity: 45%~75%
Atmospheric pressure:86~106Kpa

Electrical Characteristics

ITEM	Testing Instruction	Requirements	
Standard Charge	Charge the cell initially with 0.5C Constant Current and then with Constant Voltage at 3.6V till charge current declines to 0.05C		
Nominal Capacity	Measure discharge capacity with 1C discharge current to 2.7V cut-off after standard charge.	≥100Ah	
Cycle Life	Measure the capacity after 3000 cycles of standard charge and discharge at 0.5C current to 2.70V cut-off	≥80% of Nominal Capacity	
Storage Characteri stics	Capacity after 30 days storage at 25°C after standard charge Capacity after 7days storage at 60 °C after standard charge	Retention capacity ≥90%	

Environmental Characteristics

ITEM	Testing Instruction	Requirements
Temperature test	Measure capacity with 0.5C constant discharge current to 2.7V cut-off at each temperature after	70% at 0°C 100% at 25°C 96% at 60°C
Constant Temperature /humidity	Keep the battery at 40°C and 90%RH for 96hrs	Recovery capacity ≥ 85%

Mechanical characteristics

ITEM	Testing Instruction Re	quirements	
Vibration	After standard charge, fixed the cell to vibration table and subjected to vibration cycling that the frequency is to be varied at the rate of 1Hz per minute between 10Hz~55Hz, the excursion of the vibration is 1.6mm. The cell shall be vibrated for 30 minutes per axis of XYZ axes.	Э	
IFPacting test	After vibration, the battery will be IFPacted 1000±10 times (60±20 times per minute) with the acceleration of 100 m/s2 and pulse lasting time 16ms.	The battery shall not rupture, smoke catch fire, vent or leak.	
Free fall	IFPacting, the battery will be dropped free five times in three mutually perpendicular directions from the height of 1.0m onto a hard board with the thickness of 20mm	ioan.	

Mechanical characteristics

ITEM	Testing Instruction	Requirements
Short Circuit	After standard charge, the battery located in a fume hood is to be she circuited by connecting the positive and negative terminals with an external load of less than 50 m Ω till the battery case temperature has returned to near ambient temperature.	
Over Charge Test	After discharge to 2.7V cut-off with 0.5C discharge current, the batter is to be subjected to a 3C charging current. The specified charging current is to be obtained by connecting a resistor of the specified size and rating in series with the battery. The test time is to be calculated using the formula: tc=2.5c/3(lc)	The battery shall not rupture, smoke,
Over Discharge Test	After standard charge, the battery will be connected with external will maximum resistance load of 0.1Ω for 24hrs until it is completely discharged and the battery case temperature has returned to near ambient temperature.	th a







IVT-E PLUS

Hybrid Energy Storage Inverter









=1kVA

On&Off Wi-Fi

Optional Function

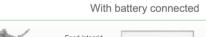


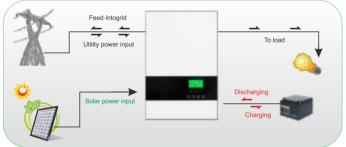
Key Features

- Hybrid solar inverter(on/off grid inverter)

- Hybrid solar inverter(on/or grid inverter)
 Output power factor PF=1.0
 On-grid with energy storage
 Configurable AC/Solar Charger priority via LCD setting
 Smart battery charger design for optimized battery performance
 Compatible to mains voltage or generator power
 Overload Over temperature. Short circuit protection
- Overload, Over temperature ,Short circuit protection,
- Fault record, History record External WI-FI devices
- Parallel operation with up to 9 units

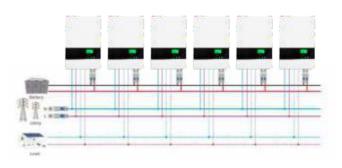
Hybrid Operation



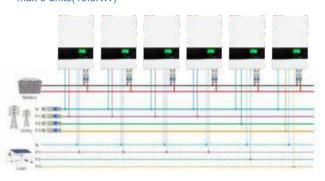


Without battery connected

■Single phase output up to 49.5 KW using 9 units



■ Three phase output using either 3 units(16.5KW)or max 9 units(49.5KW)



Wall Mounted Integrated Solar Power Inverter Technical Specification Built-in MPPT Solar Controller

Model	IVT E PLUS 3k-24	IVT E PLUS 3.2k-48	IVT E PLUS 5.5k-48
Max PV Array Power		5000W	
Rated Output Power	3000W	3200W	5500W
Maximum PV Array Open Circuit Voltage		500VDC	
MPPT Range @ Operating Voltage		120-450VDC	
GRID-TIE OPERATIOM GRID OUTPUT(AC)			
Nominal Output Voltage		220/230/240VAC	
Output Voltage Range		184-265VAC	
Nominal Output Current	13.6A/13.0A/12.5A	14.5A/13.9A/13.3A	25A/23.9A/22.9A
Efficiency	10.07 0 10.07 0 12.07 0	Up to 93.5%	20/ 020.0/ 022.0/ 0
OFF-GRID, HYBRID OPERATION			
GRID INPUT			
Acceptable Input Voltage Range		120-280VAC	
Frequency Range		50Hz/60Hz(Auto sensing)	
BATTERY MODE OUTPUT		(111 ())	
Nominal Output Voltage		220/230/240VAC	
Output Wave form		Pure sine wave	
BATTERY & CHARGER			
Nominal DC Voltage	24VDC	48VI	OC .
Maximum Solar Charge Current		90A	
Maximum AC Charge Current		60A	
Maximum Charge Current		90A	
Emergency output power			
Maximum output Power	3000W	3200W	5500W
Surge Power	6000W	6400W	11000W
Automatic Transfer Time		<8ms	
GENERAL			
INTERFACE			
Parallel Function		Yes	
Communication		USB or RS232/Dry-Contact	
ENVIRONMENT			
Humidity		0~90% RH (No Condensing)	
Operating Temperature		0 to 50°C	
Net Weight(KG)	9	10	
Rough Weight(KG)	10	11	
Dimension(W*D*H)mm		115x300x400	

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DC Product

YE NEW ENERGY TECHNOLOGY







Revo Series | Hybrid Solar Inverter on-Off Grid

IVT-II

Hybrid Energy Storage Inverter



Optional







=1kVA



Screen

GOYE

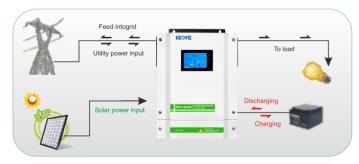


Key Features

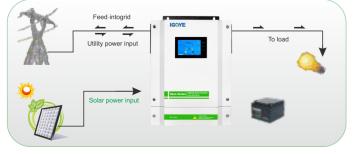
- Touch screen display
- PV and utility power the load at the same time (can be set)
- Output power factor PF=1.0
- On&Off Grid with energy storage
- Energy generated record, load record, history information and fault record.
- Structure with dust filter.
- AC charging start and stop time setting.
- External Wi-Fi device optional.
- Parallel operation up to 9 units .
- Connected with battery optional.
 Wide PV input range120-450VDC.
- Independent CPU.
- MAX PV Array power 5500W.
- Solar and Utility supply power to the load When solar power is not sufficient to load.
- The CT sensor will monitor the power consumption of the system and will make sure no excess PV power is delivered to the Grid.



Hybrid Operation



With battery connected

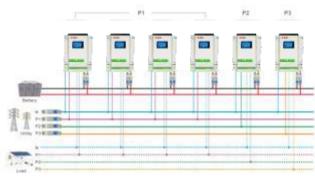


Without battery connected

■Single phase output up to 49.5 KW using 9 units



■ Three phase output using either 3 units(16.5KW) or max 9 units(49.5KW)



Wall Mounted Integrated Solar Power Inverter Technical Specification Built-in MPPT Solar Controller

Model	IVT II 3k-24	IVT II 3.2k-48	IVT II 5.5k-48		
Max PV Array Power		5000W			
Rated Output Power	3000W	3200W	5500W		
MPPT Range @ Operating Voltage		120-450VDC			
GRID-TIE OPERATIOM					
GRID OUTPUT(AC)					
Nominal Output Voltage		220/230/240VAC			
Output Voltage Range		184-265VAC			
Nominal Output Current	13.6A/13.0A/12.5A	14.5A/13.9A/13.3A	25A/23.9A/22.9A		
Efficiency		Up to 93.5%			
OFF-GRID, HYBRID OPERATION GRID INPUT					
Acceptable Input Voltage Range		120-280VAC or 170-280VAC			
Frequency Range		50Hz/60Hz(Auto sensing)			
BATTERY MODE OUTPUT		, , , , , , , , , , , , , , , , , , ,			
Nominal Output Voltage		220/230/240VAC			
Output Wave form		Pure sine wave			
BATTERY & CHARGER					
Nominal DC Voltage	24VDC	48VD	С		
Maximum AC Charge Current		60A			
Maximum Charge Current		90A			
Emergency output power					
Maximum output Power	3000W	3200W	5500W		
Surge Power	6000W	6400W	11000W		
Automatic Transfer Time		<10ms			
GENERAL INTERFACE					
Parallel Function		Yes			
Communication	USB	or RS232/WIFI/Generator Dry-Co	ntact		
ENVIRONMENT					
Humidity		0~90% RH (No Condensing)			
Operating Temperature		0 to 50°C			
Net Weight(KG)	11.75	11.9			
Rough Weight(KG)	12.75				
Dimension(W*D*H)mm		345x476x133.2			

IGOYE

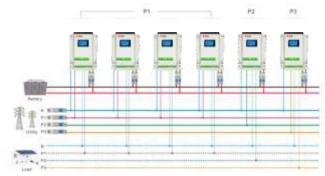






■ Three phase output using either 3 units(16.5KW) or max 9 units(49.5KW)





Wall Mounted Integrated Solar Power Inverter Technical Specification Built-in MPPT Solar Controller

Model	IVT VM II 3k-24	IVT VM II 5.5k-48		
Rated Power	3000VA/3000W	5500VA/3000W		
INPUT				
Voltage	230 VA	AC		
Selectable Voltage Range	170-280 VAC(For Personal Computers)	;90-280 VAC(For Home Appliances)		
Frequency Range	50 Hz/60 Hz(Au	uto sensing)		
OUTPUT				
AC Voltage Regulation(Batt.Mode)	230VAC	± 5%		
Surge Power	6000VA	11000VA		
Efficiency(Peak)	up to 93	3.5%		
Transfer Time	10ms (For Personal Computers);	20ms(For Home Appliances)		
Waveform	Pure sine	wave		
BATTERY				
Battery Voltage	24 VDC	48 VDC		
Floating Charge Voltage	27 VDC	54 VDC		
Overcharge Protection	33 VDC	63 VDC		
SOLAR CHARGER & AC CHARGER				
Maximum PV Array Open Circuit Voltage	500 V	DC		
Maximum PV Array Power	5500	W		
MPPT Range @ Operating Voltage	120~450	VDC		
Maximum Solar Charge Current	100A			
Maximum AC Charge Current	808	A		
Maximum Charge Current	100	A		
PHYSICAL				
Dimension, D X W X H(mm)	100 X 300) X 440		
Net Weight(kgs)	9	10		
Communication Interface	USB/RS	5232		
ENVIRONMENT				
Humidity	5% to 95% Relative Hun	nidity(No-condensing)		
Operating Temperature	-10°C to 50°C			
Storage Temperature	-15°C to	60°C		
SPECIAL FUNCTION				
	Supports lithium battery	BMS communication		

Note: Product specifications are subject to change without further notice.

IVT-VM II

Solar Energy Storage Inverter



Optional

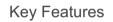


=1kVA

Francis



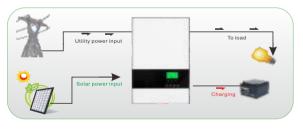
WIFI

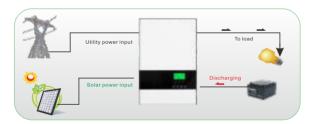


- Output power factor PF=1.0
- Configurable AC/Solar Charger priority via LCD setting
- Compatible to mains voltage or generator power
- Overload , Over temperature, Short circuit protection
- Integrated Bluetooth interface with Android App
- Supports USB On-the-Go function
 Reserved communication port(RS-485,CAN-BUS or RS-232)for
- Battery independencyUser-friendly LCD operation
- Replaceable fan design

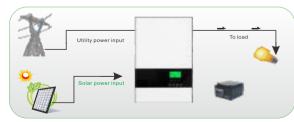
Hybrid Operation

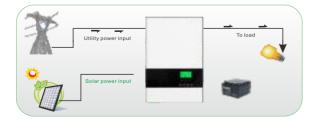
With battery connected





Without battery connected





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1.5-2.4KW

IVT-VM II PRO

IGOYE

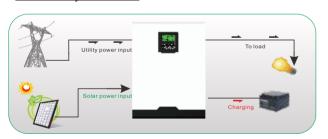
Off Grid Energy Storage Inverter

Key Features

- Pure sine wave solar inverter
- High PV input voltage range(90~450VDC)
 Built-in 80A MPPT solar charger
- Built-in anti-dusk kit for harsh environment(optinal)
- Compatibe with lithium-ion battery
- Smart battery charge design to optimize battery life
- Can meet the rich custom needs of customers
- Can work without battery
- Solar energy is provided directly to the load first
 WIFI&GPRS available for IOS and android

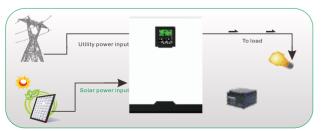
Hybrid Operation

With battery connected





Without battery connected





Wall Mounted Integrated Solar Power Inverter Technical Specification Built-in MPPT Solar Controller

Model	IVT VM II PRO 1500	IVT VM II PRO 3000	
Rated Power	1500VA/1500W	3000VA/2400W	
INPUT			
Voltage	230	VAC	
Selectable Voltage Range	170-280 VAC(For Personal Computer	rs);90-280 VAC(For Home Appliances)	
Frequency Range	50 Hz/60 Hz(.	Auto sensing)	
SOLAR CHARGER & AC CHARGER			
Maximum PV Array Open Circuit Voltage	450 VDC	450VDC	
Maximum PV Array Power	2000W	3000W	
MPPT Range @ Operating Voltage	90~43	0 VDC	
Maximum Solar Charge Current	10	0A	
Maximum AC Charge Current	80	DA .	
Maximum Charge Current	60	OA .	
Maximum Efficienvy	98	3%	
BATTERY			
Battery Voltage	12 VDC	24 VDC	
Floating Charge Voltage	13.5 VDC	27 VDC	
Overcharge Protection	16 VDC	33 VDC	
OUTPUT			
AC Voltage Regulation(Batt. Mode)	230VA	AC±5%	
Surge Power	3000VA	4800VA	
Efficiency(Peak) BAT to INV	94	4%	
Efficiency(Peak) PV to INV	97	7%	
Transfer Time	10 ms(For Personal Computers	s); 20 ms(For Home Appliances)	
Waveform	Pure si	ne wave	
PHYSICAL	348 X 2	270 X 95	
Dimension, D X W X H(mm)	9	10	
Net Weight(kgs)	USB/I	RS232	
Communication Interface	RS232(Standard)GPRS/WIFI(Optional)		
OPERATING ENVIRONMENT			
Humidity	5% to 95% Relative Hu	umidity(No-condensing)	
Operating Temperature	0°Cto 55°C		
Storage Temperature	-15°Cto 60°C		

Note: Product specifications are subject to change without further notice.





3.5-5.5KW

IVT-VM II PRO

IGOYE

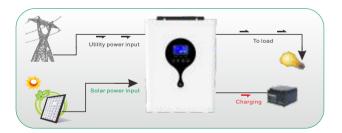
Solar Energy Storage Inverter

Key Features

- Pure sine wave solar inverter
- High PV input voltage rangeBuilt-in 100A MPPT solar charger
- With touch buttons
- Built-in anti-dusk kit for harsh environment
- Support lithium iron battery
- Battery equalization function to optimize battery performance and extend lifecycle
 Reserved communication port(RS485,CAN-BUS or RS232) for BMS (Optional)

Hybrid Operation

With battery connected





Without battery connected





Wall Mounted Integrated Solar Power Inverter Technical Specification Built-in MPPT Solar Controller

Model	IVT VM II PRO 3.5k-24	IVT VM II PRO 5.5k-48	
Rated Power	3500VA/3500W	5500VA/5500W	
INPUT			
Voltage	230	VAC	
Selectable Voltage Range	170-280 VAC(For Personal Computer	rs);90-280 VAC(For Home Appliances)	
Frequency Range	50 Hz/60 Hz(Auto sensing)	
SOLAR CHARGER & AC CHARGER			
Maximum PV Array Power	4500W	5500W	
MPPT Range @ Operating Voltage	120~45	50 VDC	
Maximum PV Array Open Circuit Voltage	500	VDC	
Maximum Solar Charge Current	10	00A	
Maximum AC Charge Current	60	0A	
Maximum Charge Current	10	0A	
BATTERY			
Battery Voltage	24 VDC	48 VDC	
Floating Charge Voltage	27 VDC	54 VDC	
Overcharge Protection	33 VDC	63 VDC	
OUTPUT			
AC Voltage Regulation(Batt. Mode)	230VA	AC±5%	
Surge Power	7000VA	11000VA	
Efficiency(Peak)	Up to	93.5%	
Transfer Time	10 ms(For Personal Computers	s); 20 ms(For Home Appliances)	
Waveform	Pure si	ne wave	
PHYSICAL			
Dimension, D X W X H(mm)	400 X 3	300 X 115	
Net Weight(kgs)	8.5	9	
Communication Interface	USB/	RS232	
OPERATING ENVIRONMENT			
Humidity	5% to 95% Relative Humidity(No-condensing)		
Operating Temperature	-10°C to 50°C		
Storage Temperature	-15°C	Cto 60°C	

Note: Product specifications are subject to change without further notice.

DC Product





IVT-VM III

Solar Energy Storage Inverter



Optional





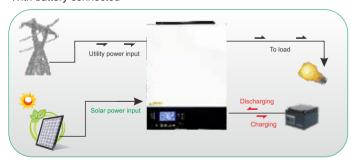
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Key Features

- Output power factor PF=1.0
- Configurable AC/Solar Charger priority via LCD setting
 Compatible to mains voltage or generator power
- Overload, Over temperature, Short circuit protection
- Integrated Bluetooth interface with Android App
- Supports USB On-the-Go function
 Reserved communication port(RS-485,CAN-BUS or RS-232)for
- Battery independencyUser-friendly LCD operation
- Replaceable fan design

Hybrid Operation

With battery connected





Without battery connected



Detachable LCD control module with various communications

This detachable LCD control module can be taken off as a remote panel .Users can install the LCD panel in accessible area awayfrom inverter up to 20 meters.

Wall Mounted Integrated Solar Power Inverter Technical Specification Built-in MPPT Solar Controller

Model	IVT VM III 3k-24	IVT VM III 5k-48	
Rated Power	3000VA/3000W	5000VA/5000W	
INPUT			
Voltage	230	VAC	
Selectable Voltage Range	170-280 VAC(For Personal Computer	rs);90-280 VAC(For Home Appliances)	
Frequency Range	50 Hz/60 Hz(Auto sensing)	
SOLAR CHARGER & AC CHARGER			
Solar Charger type	MF	PPT	
Maximum PV Array Power	4000W	5000W	
MPPT Range @ Operating Voltage	120~4	50 VDC	
Maximum PV Array Open Circuit Voltage	500	VDC	
Maximum Solar Charge Current	80	0A	
Maximum AC Charge Current	60	0A	
Maximum Charge Current	80	0A	
BATTERY			
Battery Voltage	24 VDC	48 VDC	
Floating Charge Voltage	27 VDC	54 VDC	
Overcharge Protection	33 VDC	63 VDC	
OUTPUT			
AC Voltage Regulation(Batt. Mode)	230VA	AC±5%	
Surge Power	6000VA	10000VA	
Efficiency(Peak)	Up to	93.5%	
Transfer Time	10 ms(For Personal Computers	s); 20 ms(For Home Appliances)	
Waveform	Pure si	ne wave	
PHYSICAL			
Dimension, D X W X H(mm)	100 X 3	00 X 440	
Net Weight(kgs)	9	10	
Communication Interface	USB/	RS232	
OPERATING ENVIRONMENT			
Humidity	5% to 95% Relative H	umidity(No-condensing)	
Operating Temperature	-10°C to 50°C		
Storage Temperature	-15°C	Cto 60°C	

Note: Product specifications are subject to change without further notice.

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Built-in MPPT Solar Controller





IVT-VP/VM

Solar Energy Storage Inverter









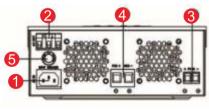


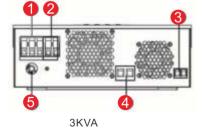
Power

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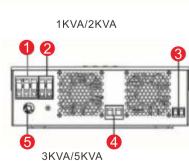
Key Features

- Pure sine wave solar inverter
- Output power factor 1
- Selectable high power charging current
- Wide DC input range
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority cia LCD setting
- Compatible to AC mains or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
 Smart battery charger design for optimized performance
- Cold start function
- Optional anti-dusk kit





- AC input
- AC output
- PV input
- 4 Battery input
- 6 Circuit breaker



Wall Mounted Integrated Solar Power Inverter Technical Specification

Model	IVT VP 1000-12	IVT VM 1200-12	IVT VP 2000-24	IVT VM 2200-24	IVT VP 3000-24	IVT VM 3200-24	IVT VP 5000-48	IVT VM 5000-48
Rated Power	1000VA	1200VA	2000VA	2200VA	3000VA	3200VA	5000\/\	V5000W
Raled Fower	/1000W	/1200W	/2000W	/2200W	/3000W	/3200W	3000VA	1300000
INPUT								
Voltage				230	O VAC			
Selectable Voltage Range		170-280 VA	C(For Perso	nal Compute	ers);90-280	VAC(For Hom	ne Applianc	es)
Frequency Range				50 Hz/60 Hz	z(Auto sensi	ng)		
SOLAR CHARGER & AC CHARGER								
Solar Charger type	PWM	MPPT	PWM	MPPT	PWM	MPPT	PWM	MPPT
Maximum PV Array Power	55VDC	102VDC	80VDC	102VDC	80VDC	102VDC	105VDC	145VDC
MPPT Range @ Operating Voltage	600W	700W	1200W	1400W	1200W	1800W	2400W	3000W
Maximum PV Array Open Circuit Voltage	N/A	17~80VDC	N/A	30~80VDC	N/A	30~80VDC	N/A	60~115VDC
Maximum Solar Charge Current	50A	50A	50A	50A	50A	65A	50A	65A
Maximum AC Charge Current	20A	20A	20A	20A	25A	25A	60A	60A
Maximum Charge Current	50A	60A	50A	60A	70A	80A	110A	120A
BATTERY								
Battery Voltage	12 \	/DC		24	VDC		48	3 VDC
Floating Charge Voltage	13.5	VDC		27	VDC		54	4 VDC
Overcharge Protection	16 \	/DC	3	1VDC	3	3VDC	63	3 VDC
OUTPUT								
AC Voltage Regulation(Batt. Mode)				230 V	AC ± 5%			
Surge Power	200	0VA	40	AV000	6	000VA	10	000VA
Efficiency(Peak)				90%	%~93%			
Transfer Time		10 ms	(For Persor	nal Compute	rs); 20 ms (F	or Home App	oliances)	
Waveform					Pu			
PHYSICAL								
Dimension, D X W X H(mm)	88x225	103x225	88x225	103x245	100x285	118.3x285	100x300	100x302
	x320	x320	x320	x330	x334	x360.4	x440	x440
Net Weight(kgs)	4.4	4.4	5	5	6.3	6.5	8.5	9.7
Communication Interface	USB/RS232							
OPERATING ENVIRONMENT								
Humidity		5% to 95% Relative Humidity(Non-condensing)						
Operating Temperature	-10 °C to 50 °C							
Storage Temperature		-15 °C to 60 °C						

Note: Product specifications are subject to change without further notice.

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DC Product

IGOYE NEW ENERGY TECHNOLOGY





IVFD-308

Solar Pump Inverter Features and Specifications

Main Features:(Power range:0.75kw-11kw 220V, 0.75kw-400kw 380V)

- Built-in MPPT function and efficiency up to 99.6%
- Could drive both AM and PMSM pump
- Advanced software technology and perfect in driving PMSM pump
- Perfect stability in output frequency
 Remote control and monitoring by GPRS system(Available in PC and mobile)
- Dry run function to protect the pump
- Automatic start and stop function
- DC and AC as input power source accepted
- Low voltage input down to 60VDC input for 110V/220V pump solution

Data	
D	Vmpp 280 to 375 VDC for 2S model(150V to 450VDC input, 3PH 220 to 240VAC output)
Recommended MPPT voltage range	Vmpp 486 to 750 VDC for 4T model(250V to 800VDC input, 3PH 380 to 440VAC output)
Recommended input voltage	Voc 355V DC, Vmpp 310V DC for 2S model or 220V AC pumps
(Voc and Vmpp)	Voc 620V DC, Vmpp 540V DC for 4T model or 380V AC pumps
Motor type	Control for permanent magnet synchronous motor(PMSM) and asynchronous motor(AM)
Input power	DC power from solar arrays or AC grid power
Maximum DC power input	450VDC for 220V AC Pump / 800VDC for 380V AC Pump
Rated output voltage	3-phase 220V or 3-phase 380V/440V
Output frequency range	0~50/60Hz
MPPT efficiency	99.60%
Ambient temperature range	−10°C to 50°C
Solar pump control special performance	MPPT (maximum power point tracking), CVT (constant voltage tracking), auto/manual operation, drun protection, low stop frequency protection, minimum power input, motor maximum current protection, flow calculating, energy generated calculating
Protection function	Phase loss protection, phase short circuit protection, ground to phase circuit protection, input and output short circuit protection. Stall protection
Protection degree	IP20-Air force cooling
Running mode	MPPT,CVT, variable frequency mode
Altitude	Below 1000m; above 1000m, derated 1% for every additional 100m
Standard	CE certificate. Design based on vector control inverter

SN	Model No.	Rate current	Output voltage (3PH AC)	Applicable for pumps	External of frive size(mm)	MPPT voltage (VDC)	Weight (kg)
			S series: Input 150-		. ,	` '	(9)
1	IVFD308-2S-OP7G-M	4A	0-220VAC	0.75kW	132*85*123.5	260 to 375	1.2
2	IVFD308-2S-1P5G-M	7A	0-220VAC	1.5kW	132*85*123.5	260 to 375	1.2
3	IVFD308-2S-2P2G-M	10A	0-220VAC	2.2kW	151*100*127	260 to 375	1.4
		Economic type 4T	series: Input 350 to	800V DC or 380	to 460V AC, VOC	620V DC	
1	IVFD308-4T-OP7G-M	2.5A	380V-440V	0.75kW	132*85*123.5	486 to 750	1.2
2	IVFD308-4T-1P5G-M	3.7A	380V-440V	1.5kW	132*85*123.5	486 to 750	1.2
3	IVFD308-4T-2P2G-M	5A	380V-440V	2.2kW	132*85*123.5	486 to 750	1.2
4	IVFD308-4T-004G-M	10A	380V-440V	4kW	151*100*127	486 to 750	1.4
		General type 2S s	eries : Input 150 to	450V DC or 200 t	to 240V AC, VOC 3	50 VDC	
1	IVFD308-2S-OP7G	4A	220V/240V	0.75kW	252*195*230	260 to 375	2
2	IVFD308-2S-1P5G	7A	220V/240V	1.5kW	252*195*230	260 to 375	2
3	IVFD308-2S-2P2G	10A	220V/240V	2.2kW	252*195*230	260 to 375	2.5
4	IVFD308-2S-004G	16A	220V/240V	4.0kW	315*235*253	260 to 375	4.3
		General type 4T s	eries : Input 350 to	800V DC or 380 t	to 460V AC, VOC 6	20V DC	
1	IVFD308-4T-OP7G	2.5A		0.75kW	252*195*230		2
2	IVFD308-4T-1P5G	3.7A		1.5kW	252*195*230		3
3	IVFD308-4T-2P2G	5A		2.2kW	252*195*230		3
4	IVFD308-4T-004G	10A		4.0kW	315*235*253		3
5	IVFD308-4T-5P5G	13A		5.5kW	315*235*253		4.2
6	IVFD308-4T-7P5G	17A		7.5kW	315*235*253		4.3
7	IVFD308-4T-011G	22A		11kW	395*295*275		4.5
8	IVFD308-4T-015G	30A		15kW	395*295*275		7.3
9	IVFD308-4T-018G	37A		18kW	395*295*275		7.5
10	IVFD308-4T-022G	45A	380V/440V	22kW	640*410*390	486 to 750	12
11	IVFD308-4T-030G	60A		30kW	640*410*390		17
12	IVFD308-4T-037G	75A		37kW	640*410*390		17.5
13	IVFD308-4T-045G	91A		45kW	700*410*460		35
14	IVFD308-4T-055G	110A		55kW	700*410*460		36
15	IVFD308-4T-075G	150A		75kW	680*485*415		45
16	IVFD308-4T-093G	180A		93kW	680*485*415		51
17	IVFD308-4T-110G	220A		110kW	680*485*415		54
18	IVFD308-4T-132G	250A		132kW	885*535*370		86
19	IVFD308-4T-160G	310A		160kW	885*535*370		90
20	IVFD308-4T-***G	***		185-400kW	******		***

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IMPPT-E **Solarcharge Controller**

Features

- It has an efficient MPPT algorithm, MPPT efficiency ≥99.5%, and converter efficiency up to 98%.
- Charge mode: three stages (constant current, constant voltage, floating charge), it prolongs service life of the batteries.
 Four types of load mode selection: ON/OFF, PV voltage control, Dual Time control, PV+Time control.
- Battery system voltage automatic recognition.
- Three kinds of commonly used lead- acid battery (Seal\(Gel\F looded) parameter settings fcan be selected by the user, and the user can also customize the parameters for other battery charging.
- It has a current limiting charging function. When the power of PV is too large, the controller automatically keeps the charging power, and the charging current will not exceed the rated value.
- High definition LCD display function to check the device running data and working status, also can support modify the controller display parameter.
- RS485 communication, we can offer communication protocol to convenient user'S integrated management and secondary development. Support PC software monitoring and WiFi module to realize APP cloud monitoring.
- CE, RoHS, FCC certifications approved, we can assist clients to pass various certifications.

Model			E20	E30	E40	E50	E60
	Con	troller Type	MPPT(maximum power point tracking)				
	MPPT efficiency			>	≥99. 5%		
Product category	Star	ndby power		0.5	5W~1.2W		
	Syst	tem voltage	Automatic recognition				
	Heat-diss	sipating method		Intellige	ent fan cooling		
	Max.PV in	put voltage(VOC)		[OC150V		
	Start the ch	narge voltage point		Battery	voltage + 3V		
	Low input vol	tage protection point		Battery	voltage + 2V		
Input	Over voltag	ge protection point		Г	OC150V		
Characteristics		12V system	260W	390W	520W	650W	780W
	Rated PV	24V system	520W	780W	1040W	1300W	1560W
	Power	36V system	780W	1170W	1560W	1950W	2340W
		48V system	1040W	1560W	2080W	2600W	3120W
	Selectable Battery Types(Default Gel Battery) Sealed lead acid, Gel battery, Flooded (Other types of the batteries also can be defined)		d)				
Charge Characteristics	Charge	e rated current	20A	30A	40A	50A	60A
	Cha	irge Method	3-Stage:cons	tant current (fas	se charging)-co	nstant voltage-f	loating charge
	Loa	ad voltage		The san	ne as the batter	y voltage	
LOAD Characteristics	Load	rated current	40A			60A	
	Load	control mode	[e, PV voltage c ol mode, PV+Ti	ontrol mode, me control mod	e
Display&	Dis	splay mode	Hiç	gh-definition LC	D segment cod	e backlight disp	olay
Communication	Commi	unication mode	8-pin RJ	45 port/RS485/ WIFI module to	support PC soft o realize APP c	tware monitorin loud monitoring	g/support
	Prot	tect function	Input - otup	ut over/under voverse protection	oltage protection, battery shedo	n, Prevention o	f connection etc.
	Operation	on Temperature			-20°C~ +50°C		
	Storag	e Temperature			-40°C~ +75°C		
	IP(Ingre	ess protection)			IP21		
Other Parameters	Max. c	onnection size		20mm²		30	mm²
	Net	Weight(kg)		2.3		2	2.6
	Gros	s Weight(kg)		3		3	3. 5
	Produ	uct Size(mm)		240*168*66		270*	180*85
	Packi	ing Size(mm)		289*204*101		324*2	23*135

lgoye 28 27 Igoye





IYPV/1-1 DC

IGOYE

Combiner Box

Overview

High reliability With DC FUSE

With DC Surge Protection Device

With DC Circuit breaker or DC load isolation switch.

Strong adaptability

IP65 design, waterproof, anti dust and anti ultraviolet.

Strict test for high and low temperature, used widely.

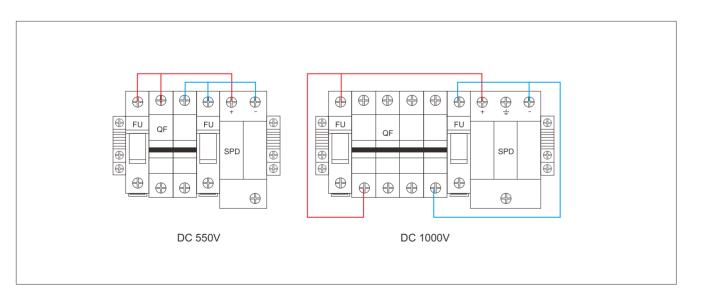
The simple installation, the simplified system wiring, the convenient wiring. The box body is made of cold rolled steel and other metal materials.

Flexible configuration
Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modifed.

Description

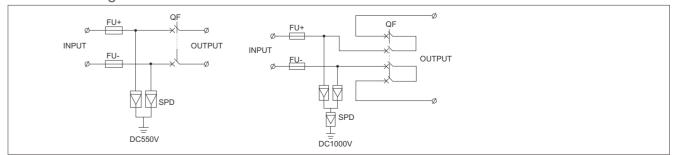
IYPV/1-1 combiner box is suitable for inverter (MAX input voltage DC550V /DC1000V, 1 PV input channel, 1 output channel, single MPPT inverter). Box body is made of PVC engineering materials, with test for fire retardant, temperature rise, anti impact, anti ultraviolet, and other testing. IP65 protection grade.

Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment" CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.



	Electric parameter				
System maximum dc voltage	550	1000			
Maximum input current for each string	1	15A			
Maximum input strings		1			
Maximum output switch current	16A	V/20A			
Number of inverter MPPT		1			
Number of output strings		1			
	Lightning protection				
Category of test	II Grade	protection			
Nominal discharge current	2	0kA			
Maximum discharge current	4	OkA			
Voltage protection level	2.5kV	3.8kV			
Maximum continuous operating voltage Uc	630V	1050V			
Poles	2P	3P			
Structure characteristic	Plug-pu	Plug-push module			
	System				
Protection grade	IF	P65			
Output switch	DC isolation switch (standar	d)/DC circuit breaker(optional)			
MC4R waterproof connectors	Sta	ndard			
PV DC fuse	Sta	ndard			
PV surge protector	Sta	ndard			
Monitoring module	Ор	tional			
Preventing diode	Ор	tional			
Box material	F	PVC			
Installation method	Wall mounting type				
Operating Temperature	-25°C ~+55°C				
Elevation of temperature	2km				
Permissible relative humidity	0-95%, no	condensation			
	Mechanical parameter				
Width x High x Depth(mm)	300 x 260 x140				

Schematic diagram



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IYPV/2-1 DC

Combiner Box

Overview

High reliability With DC FUSE

With DC Surge Protection Device

With DC Circuit breaker or DC load isolation switch.

Strong adaptability

IP65 design, waterproof, anti dust and anti ultraviolet.

Strict test for high and low temperature, used widely.

The simple installation, the simplified system wiring, the convenient wiring. The box body is made of cold rolled steel and other metal materials.

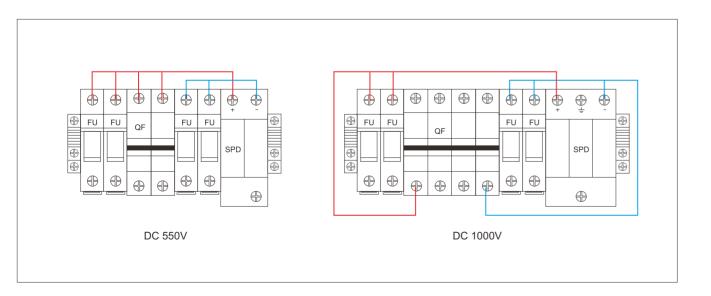
Flexible configuration

Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modifed.

Description

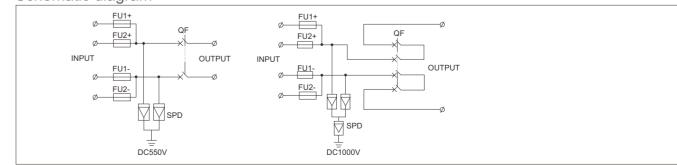
IYPV/2-1 combiner box is suitable for inverter (MAX input voltage DC550V /DC1000V, 2 PV input channel, 1 output channel, single MPPT inverter). Box body is made of PVC engineering materials, with test for fire retardant, temperature rise, anti impact, anti ultraviolet, and other testing. IP65 protection grade.

Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment" CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.



	Electric parameter			
System maximum dc voltage	550	1000		
Maximum input current for each string	1:	5A		
Maximum input strings		1		
Maximum output switch current	20A	/32A		
Number of inverter MPPT		1		
Number of output strings		1		
	Lightning protection			
Category of test	II Grade	protection		
Nominal discharge current	20)kA		
Maximum discharge current	40)kA		
Voltage protection level	2.5kV	3.8kV		
Maximum continuous operating voltage Uc	630V	1050V		
Poles	2P	3P		
Structure characteristic	Plug-push module			
	System			
Protection grade	IP	65		
Output switch	DC isolation switch (standard	d)/DC circuit breaker(optional)		
MC4R waterproof connectors	Star	ndard		
PV DC fuse	Star	ndard		
PV surge protector	Star	ndard		
Monitoring module	Opt	ional		
Preventing diode	Opt	ional		
Box material	P	VC		
Installation method	Wall mounting type			
Operating Temperature	-25°C ~+55°C			
Elevation of temperature	2km			
Permissible relative humidity	0-95%, no c	condensation		
	Mechanical parameter			
Width x High x Depth(mm)	300 x 2	60 x140		

Schematic diagram







IYPV/4-1 DC

Combiner Box

IGOYE

Overview

High reliability With DC FUSE

With DC Surge Protection Device

With DC Circuit breaker or DC load isolation switch.

Strong adaptability

IP65 design, waterproof, anti dust and anti ultraviolet.

Strict test for high and low temperature, used widely.

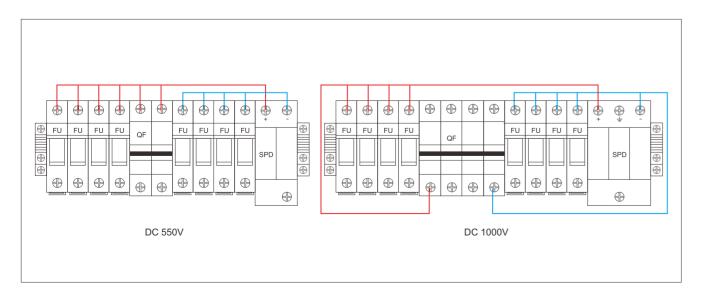
The simple installation, the simplified system wiring, the convenient wiring. The box body is made of cold rolled steel and other metal materials.

Flexible configuration
Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modifed.

Description

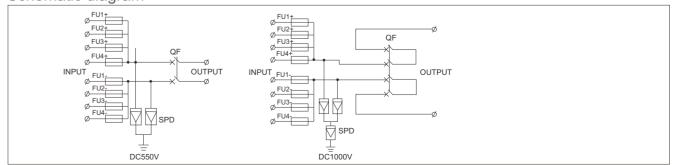
IYPV/4-1 combiner box is suitable for inverter (MAX input voltage DC550V /DC1000V, 4 PV input channel, 1 output channel, single MPPT inverter). Box body is made of PVC engineering materials, with test for fire retardant, temperature rise, anti impact, anti ultraviolet, and other testing. IP65 protection grade.

Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment" CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.



	Electric parameter			
System maximum dc voltage	550	1000		
Maximum input current for each string	1	5A		
Maximum input strings		4		
Maximum output switch current	50A	V63A		
Number of inverter MPPT		1		
Number of output strings		1		
	Lightning protection			
Category of test	II Grade	protection		
Nominal discharge current	20	DkA		
Maximum discharge current	40	DkA		
Voltage protection level	2.8kV	3.8kV		
Maximum continuous operating voltage Uc	630V	1050V		
Poles	2P	3P		
Structure characteristic	Plug-push module			
	System			
Protection grade	IF	P65		
Output switch	DC isolation switch (standard	d)/DC circuit breaker(optional)		
MC4R waterproof connectors	Star	ndard		
PV DC fuse	Star	ndard		
PV surge protector	Star	ndard		
Monitoring module	Opt	ional		
Preventing diode	Opt	ional		
Box material	Р	VC		
Installation method	Wall mounting type			
Operating Temperature	-25°C ~+55°C			
Elevation of temperature	2km			
Permissible relative humidity	0-95%, no d	condensation		
	Mechanical parameter			
Width x High x Depth(mm)	410 x 2	285 x140		

Schematic diagram



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IYPV/6-1 DC

Combiner Box

Overview

High reliability

With DC FUSE

With DC Surge Protection Device

With DC Circuit breaker or DC load isolation switch.

Strong adaptability

IP65 design, waterproof, anti dust and anti ultraviolet. Strict test for high and low temperature, used widely.

The simple installation, the simplified system wiring, the convenient wiring.

The box body is made of cold rolled steel and other metal materials.

Flexible configuration

Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modifed.

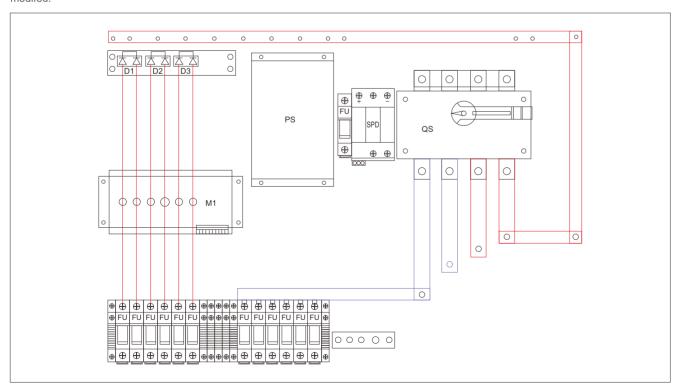
Description

IYPV/6-1 PV combiner box bus synthetic DC input of 6 PV components to 1 output. Each channel is with a fuse. Output side is equipped with lightning protection and circuit breaker. It greatly simplify input wiring of DC power distribution cabinet and inverter. Realize lightning protection, short circuit protection and grounding protection. PV combiner box divided into two types: intelligent box and non-intelligent box. Intelligent PV combiner box is equipped with monitoring unit, then detect input current of each string, detect inside temperature, detect lightning protection status, detect circuit breaker status and summarize output voltage and so on.

IGOYE

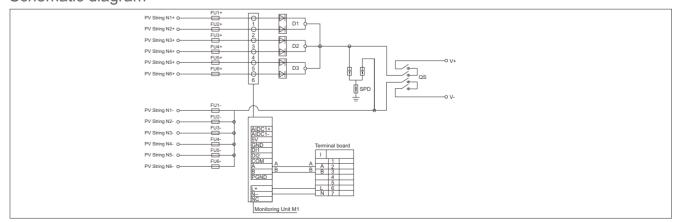
Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment" CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.

The product adopts outdoor wall mounted type, which adapt to the harsh environment. In addition to the core components, the other can be customized by user requirements.



	Electric parameter
System maximum dc voltage	1000
Maximum input current for each string	15A
Maximum input strings	15A 6
	80A/90A
Maximum output switch current Number of inverter MPPT	00A/90A
	1
Number of output strings	·
Category of test	Lightning protection
Nominal discharge current	II Grade protection 20kA
	40kA
Maximum discharge current	3.8kV
Voltage protection level	1050V
Maximum continuous operating voltage Uc Poles	3P
Structure characteristic	
Structure characteristic	Plug-push module
Dratastian grada	System
Protection grade	IP65
Output switch	DC isolation switch (standard)/DC circuit breaker(optional)
MC4R waterproof connectors	Standard
PV DC fuse	Standard
PV surge protector	Standard
Monitoring module	Optional
Preventing diode	Optional
Box material	PVC
Installation method	Wall mounting type
Operating Temperature	-25°C ~+55°C
Elevation of temperature	2km
Permissible relative humidity	0-95%, no condensation
Modificant Park of Death (see)	Mechanical parameter
Width x High x Depth(mm)	440 x 400 x180

Schematic diagram







IYPV/8-1 DC

Combiner Box

Overview

High reliability

With DC FUSE

With DC Surge Protection Device

With DC Circuit breaker or DC load isolation switch.

Strong adaptability

IP65 design, waterproof, anti dust and anti ultraviolet. Strict test for high and low temperature, used widely.

The simple installation, the simplified system wiring, the convenient wiring.

The box body is made of cold rolled steel and other metal materials.

Flexible configuration

Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modifed.

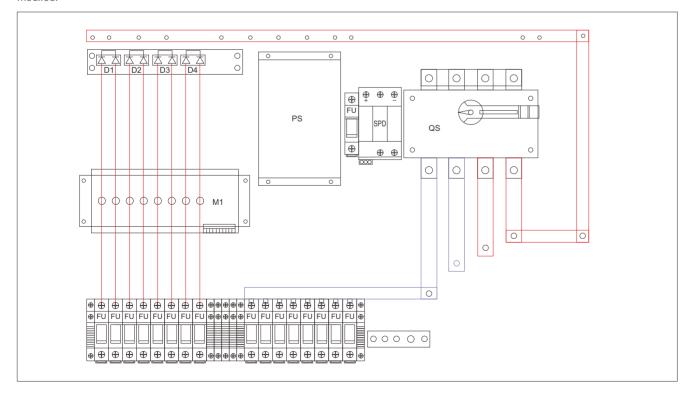
Description

IYPV/8-1 PV combiner box bus synthetic DC input of 8 PV components to 1 output. Each channel is with a fuse. Output side is equipped with lightning protection and circuit breaker. It greatly simplify input wiring of DC power distribution cabinet and inverter. Realize lightning protection, short circuit protection and grounding protection. PV combiner box divided into two types: intelligent box and non-intelligent box. Intelligent PV combiner box is equipped with monitoring unit, then detect input current of each string, detect inside temperature, detect lightning protection status, detect circuit breaker status and summarize output voltage and so on.

IGOYE

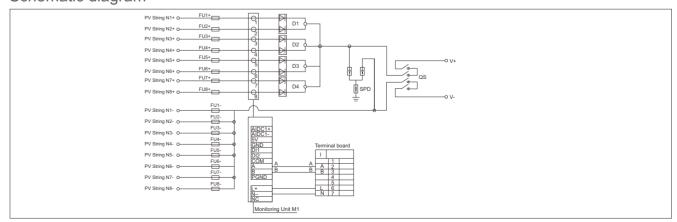
Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment" CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.

The product adopts outdoor wall mounted type, which adapt to the harsh environment. In addition to the core components, the other can be customized by user requirements.

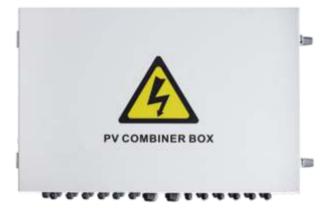


Data						
	Electric parameter					
System maximum dc voltage	1000					
Maximum input current for each string	15A					
Maximum input strings	8					
Maximum output switch current	125A					
Number of inverter MPPT	1					
Number of output strings	1					
Lightning protection						
Category of test	II Grade protection					
Nominal discharge current	20kA					
Maximum discharge current	40kA					
Voltage protection level	3.8kV					
Maximum continuous operating voltage Uc	1050V					
Poles	3P					
Structure characteristic	Plug-push module					
	System					
Protection grade	IP65					
Output switch	DC isolation switch (standard)/DC circuit breaker(optional)					
MC4R waterproof connectors	Standard					
PV DC fuse	Standard					
PV surge protector	Standard					
Monitoring module	Optional					
Preventing diode	Optional					
Box material	PVC					
Installation method	Wall mounting type					
Operating Temperature	-25°C ~+55°C					
Elevation of temperature	2km					
Permissible relative humidity	0-95%, no condensation					
	Mechanical parameter					
Width x High x Depth(mm)	500 x 400 x190					

Schematic diagram







IYPV/12-1 DC

Combiner Box

Overview

High reliability

With DC FUSE

With DC Surge Protection Device

With DC Circuit breaker or DC load isolation switch.

Strong adaptability

IP65 design, waterproof, anti dust and anti ultraviolet. Strict test for high and low temperature, used widely.

The simple installation, the simplified system wiring, the convenient wiring.

The box body is made of cold rolled steel and other metal materials.

Flexible configuration

Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modifed.

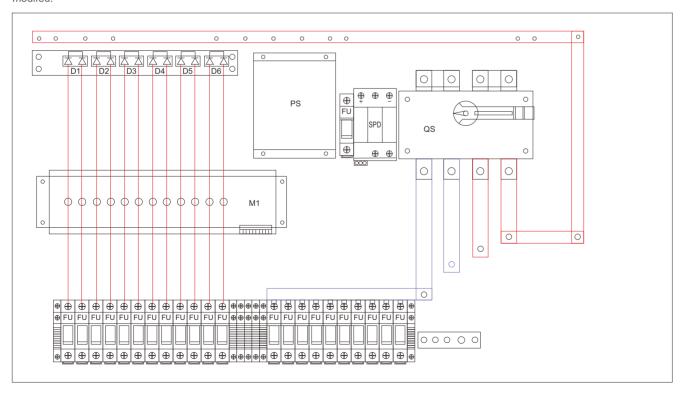
Description

IYPV/12-1 PV combiner box bus synthetic DC input of 12 PV components to 1 output. Each channel is with a fuse. Output side is equipped with lightning protection and circuit breaker. It greatly simplify input wiring of DC power distribution cabinet and inverter. Realize lightning protection, short circuit protection and grounding protection. PV combiner box divided into two types: intelligent box and non-intelligent box. Intelligent PV combiner box is equipped with monitoring unit, then detect input current of each string, detect inside temperature, detect lightning protection status, detect circuit breaker status and summarize output voltage and so on.

IGOYE

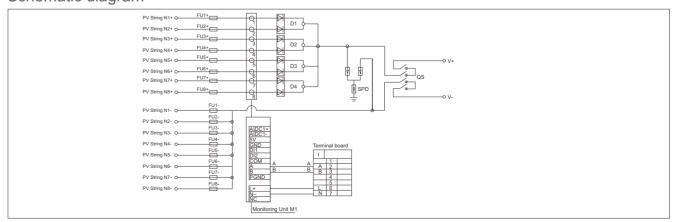
Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment" CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.

The product adopts outdoor wall mounted type, which adapt to the harsh environment. In addition to the core components, the other can be customized by user requirements.



Data						
	Electric parameter					
System maximum dc voltage	1000					
Maximum input current for each string	15A					
Maximum input strings	12					
Maximum output switch current	180A					
Number of inverter MPPT	1					
Number of output strings	1					
Lightning protection						
Category of test	II Grade protection					
Nominal discharge current	20kA					
Maximum discharge current	40kA					
Voltage protection level	3.8kV					
Maximum continuous operating voltage Uc	1050V					
Poles	3P					
Structure characteristic	Plug-push module					
	System					
Protection grade	IP65					
Output switch	DC isolation switch (standard)/DC circuit breaker(optional)					
MC4R waterproof connectors	Standard					
PV DC fuse	Standard					
PV surge protector	Standard					
Monitoring module	Optional					
Preventing diode	Optional					
Box material	PVC					
Installation method	Wall mounting type					
Operating Temperature	-25°C ~+55°C					
Elevation of temperature	2km					
Permissible relative humidity	0-95%, no condensation					
	Mechanical parameter					
Width x High x Depth(mm)	640 x 450 x180					

Schematic diagram





IYPV/16-1 DC

Combiner Box

Overview

High reliability

With DC FUSE

With DC Surge Protection Device

With DC Circuit breaker or DC load isolation switch.

Strong adaptability

IP65 design, waterproof, anti dust and anti ultraviolet.

Strict test for high and low temperature, used widely. The simple installation, the simplified system wiring, the

convenient wiring.

The box body is made of cold rolled steel and other metal materials.

Flexible configuration

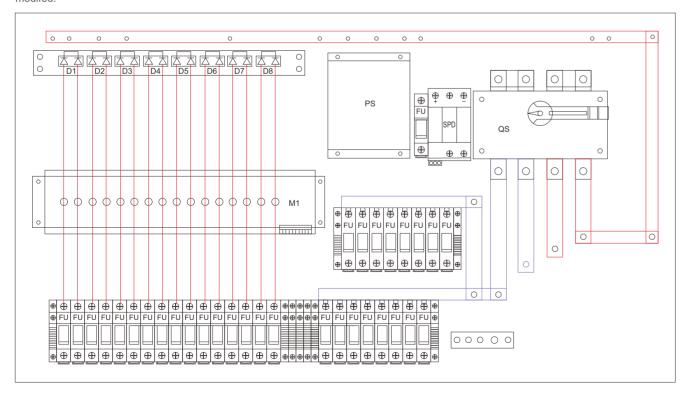
Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modifed.

Description

IYPV/16-1 PV combiner box bus synthetic DC input of 16 PV components to 1 output. Each channel is with a fuse. Output side is equipped with lightning protection and circuit breaker. It greatly simplify input wiring of DC power distribution cabinet and inverter. Realize lightning protection, short circuit protection and grounding protection. PV combiner box divided into two types: intelligent box and non-intelligent box. Intelligent PV combiner box is equipped with monitoring unit, then detect input current of each string, detect inside temperature, detect lightning protection status, detect circuit breaker status and summarize output voltage and so on.

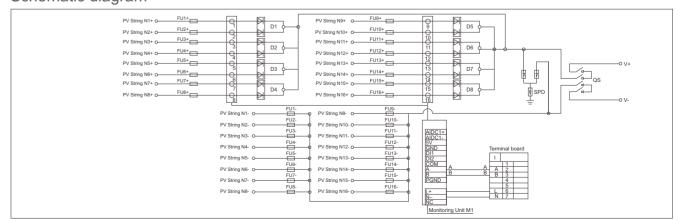
Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment" CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.

The product adopts outdoor wall mounted type, which adapt to the harsh environment. In addition to the core components, the other can be customized by user requirements.



	Electric parameter			
System maximum dc voltage	1000			
Maximum input current for each string	15A			
Maximum input strings	16			
Maximum output switch current	240A			
Number of inverter MPPT	1			
Number of output strings	1			
turnbor or output strings	Lightning protection			
Category of test	II Grade protection			
Nominal discharge current	20kA			
Maximum discharge current	40kA			
Voltage protection level	3.8kV			
Maximum continuous operating voltage Uc	1050V			
Poles	3P			
Structure characteristic	Plug-push module			
	System			
Protection grade	IP65			
Output switch	DC isolation switch (standard)/DC circuit breaker(optional)			
MC4R waterproof connectors	Standard			
PV DC fuse	Standard			
PV surge protector	Standard			
Monitoring module	Optional			
Preventing diode	Optional			
Box material	PVC			
Installation method	Wall mounting type			
Operating Temperature	-25°C ~+55°C			
Elevation of temperature	2km			
Permissible relative humidity	0-95%, no condensation			
	Mechanical parameter			
Width x High x Depth(mm)	800 x 500 x180			

Schematic diagram









Automatic Transfer Switch

Oveview

Series dual power automatic transfer switches are newly developed miniature household power transfer switches. This switch is mainlused to test whether the normal or standby power supply is normal When the normal power supply is abnormal, the backup power supply will work immediately to ensure the continuity, reliability and safety of the power supply. This product is specially designed for home track TV installation and is specially used for Pz30 distribution box.

Series of automatic transfer switches are suitable for emergency power system 400V, 60A with AC rated current of 50v or 60HZ, compact structure, reliable conversion, easy installation and maintenance. long life. It is widely used in various occasions where continuous power failure is not allowed. It can be operated electrically or manually by ATS and the controller.

Complies with requirements of Low-voltage Switch Gear and Control Gearspecified by IEC 60947-6-1 and EC60947-3: functional equipment and transfer switch equipme.

Data						
Rated current le A		16 20 25 32 40 50 63 100				
Insulation voltage Ui	AC 690V					
Rated voltage Ue		AC 400V				
Grade	Grade PC: able to mal	le and withstand not to break	short-circuit current			
Use categoty		AC-33iB				
Pole	2P	3P	4P			
Weight(kg)	0.62	0.72	0.81			
Life	Electrial:2000times;Mechanical:5000times					
Rated conditional short-circuit current lq	50kA					
SCPD(fuse)	RT16-00-63A					
Rated impulse withstand voltage	8kV					
Control circuit	Rated control voltage Us: AC	2220V, 50Hz Correct working	condition 85%Us~110%Us			
Auxiliary circuit		AC220V/AV110V 50/60Hz				
Contact transfer time		<50ms				
Operating transfer time	<50ms					
Return transfer time	<50ms					
Off-time	<50ms					
Temperature range	-40°C40°C(IEC) aver	age te,perature not more th	an 35°C in 24 hours			

DC Product

GOYE NEW ENERGY TECHNOLOG



Normal working conditions and installation conditions

Ambient temperature : the upper limit does not exceed + 40° C . The average value of 24h does not exceed + 35° C , and the lower limit is not lower than- 5° C.

The altitude is higher than the installation site and the altitude does not exceed 2000m.

When the highest atmospheric temperature is $+40^{\circ}\text{C}$, the relative humidity of the atmosphere at the installation site should not exceed 50%. At lower temperatures, higher relative humidity is allowed, for example, temperature $+25^{\circ}\text{C}$, relative humidity is 90%. Due to temperature changes, occasionally measures should be taken to prevent condensation on the surface of the product.

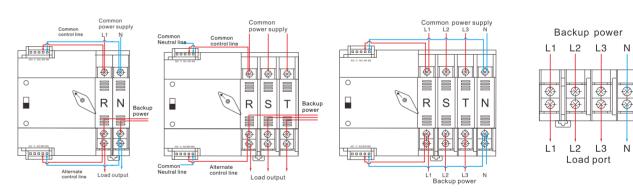
Pollution degree The pollution degree of TSE complies with the level 3 specified by IEC . The installation category of 60947-6-1 and IEC 60947-34.5 installation category TSE conforms to the category specified by IEC60947-6-14.6 . Installation conditions can be installed vertically in a control cabinet or power distribution cabinet . Make sure : the installation distance S is as shown in the figure . 1...

Matters needing attention

Manual/automatic operation can ensure the on and off performance in electrical operation, but in manual operation, it cannot be guaranteed due to the difference in the operators on and off speed. In manual peration, excessive silver alloy loss may occur. Therefore, only after cutting off all power to check and maintain the operating system and contact information, can the selector switch be pulled to the manual position. Normally, please pull the selector switch to the electric position. When manual operation is required, pull the selector switch to the manual position. After the manual operation is completed, pull the selector switch from the manual position to the automatic position.

The control circuit TSE is excited instantly. After the conversion iS completed, the internal switch will damage the coil in the control circuit. The coil can work normally at 85%-110% of the rated working voltage. Too low input voltage may cause the coil to heat up and burn.

Wiring diagram of controller



- 1. (Must be connected) Take zero line and fire line from the common control incoming line to connect AR (live wire) / AN (neutral line)
- 2. (Must be connected) Take zero line and fire line from the backup control incoming line to connect BR (live wire) / BN (neutral line)
- 3. The power indication signal is passive output, and the generator signal is taken (common) and (normally closed)
- 4. Connect the load end at the lower end of the (standby power supply side), Stepped wiring
- 5 . There is an isolation board on the load . When wiring . first remove the isolation board, connect the load and then install the isolation board (it is recommended to connect the load first , then connect the backup power supply)

Note: Normal type wiring same as solar type. For solar type, the backup power must be connected to the city power.

DC Product



258*198*107



IYM3DC

AC/DC Molded Case Circuit Breaker

Function Introduction

Through many years of dedicated research on the actual system operation situation and customer needs of new energy at home and abroad , UNITE Electric has developed the IYM3 (DC) - (HU) series of AC and DC Molded Circuit Breaker for New Energy. Product Characteristic

- -for IYM3- (HU) series Molded Circuit Breaker , The maximum rated voltage is AC 1140V and the maximum current is 400A.
- -for IYM3- (HU) series Molded Circuit Breaker , in the voltage of AC 800V , the maximum breaking capacity is 36.5KA , which can ensure reliable short-circuit protection of the system.
- -for IYM3DC- (HU) series Molded Circuit Breaker , The maximum rated voltage Is AC1500V and the maximum current is 400A.
- -for IYM3DC- (HU) series Molded Circuit Breaker, in the voltage of DC 1500V , the maximum breaking capacity is 20KA , which can ensure reliable short-circuit protection of the system.

Standard

IYM3(DC)-(HU) series AC/DC molded case circuit breaker meet the following standards

IEC 60947-1 GB/T14048.1 General Provisions IEC 60947-2 GB/T14048.2 circuit breaker

Applied Environment

- 1. The altitude is not higher than 2000m;
- 2.It is resistant to damp air (three-proof type)
- 3.lt is resistant to the influence of salt fog and oil fog(three-proof type):
- 4.It is resistant to the influence of mold (three-proof type); 5.In a medium without explosion risk, and the medium is not
- enough to corrode the metal and destroy the insulation of the gas and conductive dust.
- NOTE: the three-prevention products should be specially customized, please indicate TH.

Class

According to operation mode:

- 1.Direct operation
- 2. Electric operator mechanism operation
- 3. Rotary handle operation

According to the protection form:

- 1.Line protection
- 2.Line isolation

According to the wiring form:

- 1.Front-board wiring
- 2.Rear-panel wiring
- 3.Plug-in wiring

Model preparation meaning

IY	M	3	DC	- 250	HU	/	3 +	300	+ D	DC1500V	200A
ΙΥ		igovo									
• •		igoye	^								
M		Molded	Case								
3		Design I	No.								
DC		AC alter	AC alternating curren, DC direct current								
250		Shell fra	Shell frame gradecurrent 250,320,400								
HU		Rated s	Rated short-circuit breaking capacity rating. HU:high breaking								
3		Phase N	10.								
300		Stripper	mode a	ind attachr	nent code	(see Ta	ble)				
D		Externa	External accessories D Auto operation Z Manual operation								
DC1500	0V	Rated v	Rated voltage AC800/1140/1000V, DC250/500/750/1000/1250/1500V								
200A		Rated c	urrent								

Model	IYM	3DC-25	0HU	IYM3DC-320HU			IYM3DC-400HU		
Rated current of shell frame grade Inm(A)		250			320		400		
Rated current In(A)	125,140,1	60,180,20	00,225,250	4	280,315,32	20	200,225,2	80,300,31	5,350,400
Pole Number	2	3	3	2	3	3	4	4	4
Rated working voltage Ue(V)AC	1000	1250	1500	1000	1250	1500	1000	1250	1500
Rated insulation voltage Ui(V)	1000	1500	1500	1000	1500	1500	1500	1500	1500
Rated impulse withstand voltage Uimp(kV)					12				
Extreme short-circuit breaking capacity Icu(kA)					20				
Running short-circuit breaking capacity lcs(kA)	20								
Wiring mode			L	Jp incomi	ng and do	wn outcor	ming		
Mechanical life(Total times)					10000				
Electrical life(Total times)					5000				
Insolation feature					yes				
Standard				IEC 60	947-2 GB	/T 14048.	2		
Allowable ambient temperature					-40°C70)°C			
Levels of protection	IP20								
Quality certificate	CCC CB TUV certificate								
With accessories		А	uxiliary, alar	m, off loa	id, hand op	peration,	electric ope	ration	

180*76(2P)/107(3P)*105

≤50(Zero arc, with arcing cover)

180*76(2P)/107(3P)*105

fixed type, plug-in type

Action characteristic curve of the circuit breaker

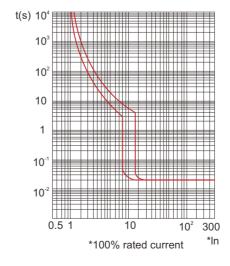
IYM3DC-(HU)Action characteristic curve

Arcing distance(mm)

Transient Action value

Installation way

Overall dimensions L*W*H(mm)



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DC Product IGOYE NEW ENERGY TECHNOLOGY





IYRD9L-125

Photovoltaic special reclosing miniature circuit breaker Automatic Reclosing Miniature Circuit Breaker for Photovoltaic System

Product overview

IYRD9L-125 series photovoltaic special reclosing miniature circuit breaker (hereinafter referredto as the circuit breaker), suitable for the line of AC 50HZ, rated workingvoltage to 400V, ratedcurrent to 125A with overvoltage,undervoltage, voltage loss, overload shortcircuit protection function. At present, broadly used in photovoltaic distributiobox.

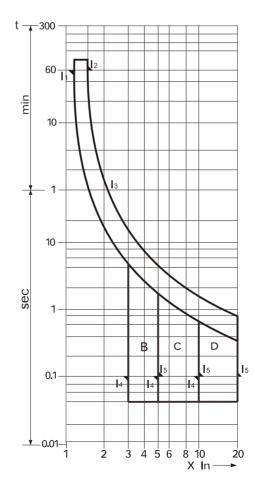
Accord with GB10963.1 IEC80198.1

Electrical Characteristics

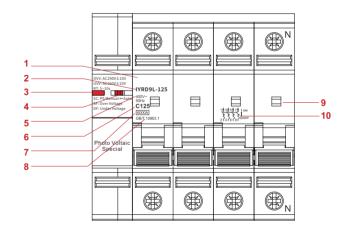
Behaviour of electricity	
Number of poles	2P.4P
Function	overvoltage,undervoltage,voltageloss,overload short circuit protection
Shell rating rating Inm	125A
Rated operating voltage: Ue	400V
Rated current In	32、40、50、63、80、100、125A
The type of deduction at the time of the case	C
Rated short-circuit breaking capacity	lcs=lcn=6000A
Mechanical life	10000 Times
Electricity life	4000 Times
Overcurrent trip characteristics	See also in Table 1 and Figure 1
Protection function	ŭ
Over-voltage protection value	285V±5V
Over-voltage protection recovery value	275V±5V
Over-voltage protection action delay	1s
Under-voltage protection value	150V±5V
Under-voltage protection recovery value	160V±5V
Delay of under-voltage protection action	1s
Extreme operating voltage	3 0 0V
Loss of voltage protection function	Yes
Reset delay	20s-40 s
Power consumption	0.5W
Normal working conditions and installation	
Levels of protection	I P2 0
Connection capacity	1-35mm²
Use ambient temperature	-40X:-70Z
Anti-wet touch	Class 2
height	w2000 m
Class of pollution	2
Circuit breaker corresponds to the sectional area f copper wire	See, 2
Installation environment	No significant) medium strike and vibration place
Install the category	Ill
installation	DIN standard guide rail

Num	Rated current	Start state	Test current	Specified time	Expected result
1	32,40,50,63	0.11.0.			
-	80,100,125	Cold State	1.13ln	t≤2h	Not Trip
2	32,40,50,63	2,40,50,63 Immediately after the previous test 1.45In		t<1h	Trip
2	80,100,125	the previous test	1.45/11	t<2h	1119
1	In≤32	Cold State	2 . 55ln	1s <t<60s< td=""><td>Trip</td></t<60s<>	Trip
'	In>32	Cord State	2.55111	1s <t<120s< td=""><td>1119</td></t<120s<>	1119
4	all model	0.110	5ln	t ≤ 0.1s	Trip
1	attinodet	Cold State	101n	t<0.1s	Not Trip

Graph 2										
Rated current(A)	≤ 6	10	16,20	25	32	40,50	63	80	100	125
wire area (mm²)	1	1.5	2.5	4	6	10	16	25	35	50



Use and operation indication



- 1:Brand
- 2:Model

- 3:Control signal indicator
 4:Manual/Auto transfer switch
 5:Rated working voltage
 6:Tripping curve and Rated current
 7:Rated short-circuit capacity
- 8:Indicator window
- 9:Electrical wiring diagram

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IYM9DC DC MCB

General

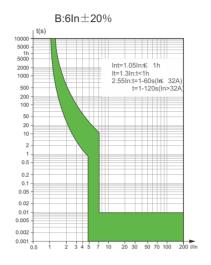
IYM9DC circuit breaker is used for DC rated voltage to 1000V, rated current to 63A line, for overload and short circuit protection, and can also be used as an infrequent operation of the line. Circuit breakers are used in DC applications such as communications and photovoltaic syst.

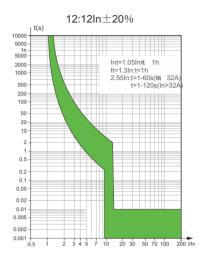
• In complicance with IEC6094.2

Data	
Rated current In	1-63A
Poles	1P 2P 3P 4P
Rated voltage Ue	1P:250V~ 2P:500V 3P:750V 4P:1000V
Insulation voltage Ui	1000V
Rated breaking capacity Ics=Icu	6000A
Rated impulse withstand voltage(1.2/50) Uimp	6KV
Thermo-magnetic release characteristic	B:6In±20% C:12In±20%
Mechanical life	20000

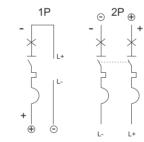
Installation	
Contact position indicator	yes
Portection degree	IP20
Reference temperature for setting of thermal element	30
Ambient temperature (with daily average ≤35°C)	-5~+40°C
Storage temperature	-25~+70°C
Terminal connertion type	Cable/U-type busbar/Pin-type busbar
Terminal size top/bottom for cable	25mm² 18-3
Tightening torque	3.0N*m 22
Mounting	ON DIN rail FN 60715(35mm) by means of fast clip device
Connection	Top and bottom

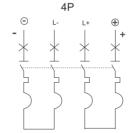
Tripping graph



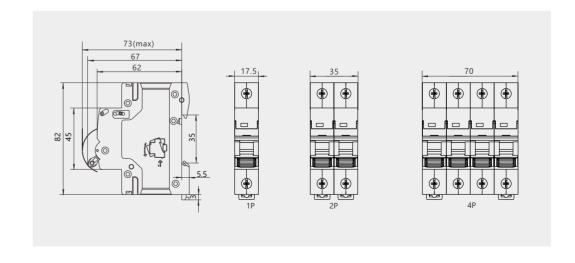


Wiring diagram of DC ap





Overall and mounting dimensioned chart



DC Product



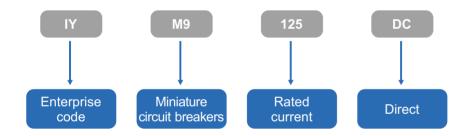


IYM9-125DC

DC Miniature Circuit Breakers

Scope of application

GYM9-125DC series DC miniature circuit breakers (hereinafter referred to as circuit breakers) are suitable for lines with a rated current of 125A and below DC and a rated DC voltage of 250V and 500V. It is used for overload and short-circuit protection of the facilities and electrics of the DC power distribution system, and can be widely used in electric power, post and telecommunications, AC, industrial and mining enterprises and other industries. This product complies with GB14048.2, IEC60947-2 standard requirements.



Product applicable working conditions and working environment

- The ambient air temperature should not exceed +40°C at the highest, and -5°C at the lowest, and the average value should not exceed +35
- The altitude of the installation site should not exceed 2000m.
- The relative humidity of the atmosphere does not exceed 50% when the highest ambient temperature is +40°C, and can have higher relative humidity at lower temperatures. The monthly average maximum relative humidity of the wettest month is 90%, and the monthly average relative humidity of the month is 90%. The average minimum temperature is +25°C, taking into account condensation on the product surface due to temperature changes.
- The pollution level is 2.
- The installation category is Class II and Class III.
- Use TH35-7.5 steel mounting rail to install.
- The inclination of the installation surface and the vertical surface should not exceed 5°.
- Compress the wiring with screws.

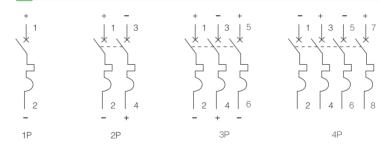
Scope of application

GYM9-125DC DC circuit breaker is composed of shell, operating mechanism, thermal release, electromagnetic release contact system, arc extinguishing system, etc. It has overload and short circuit protection functions, unique design structure and powerful permanent magnet arc extinguishing The system enables the product to have a short-circuit capacity of 10kA, a mechanical life of more than 20,000 times, and a beautiful appearance. The installation guide rail is TH35-7.5 standard steel installation rail, and has the following characteristics: The handle is designed above the front face, and it has a strong sense of safety during operation., feel comfortable, must pay attention to the "+, -" polarity when wiring, the power supply is in and out, which is in line with the characteristics of the power supply line, easy to install and save wires.

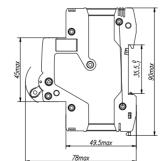
Main specifications and technical parameters						
Frame rating rated	number	Rated	Rated current	Rated ultimate sho	rt-circuit capacity	Instantaneous
current Inm (A)	of poles	voltage (V)	In (A)	Breaking current Icu (A)	Time constant T (ms)	tripping current
	1	DC250V	4004040			
63	63 2,3 DC500V 1,2,3,4,6,10 16,20,25,32 40,50,63	10000 10	10	8ln-12ln		
	1	DC250V	80,			
125	2,3	DC500V	100, 125	10000	10	8ln-12ln
	4	DC1000V				

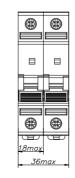
Standard ⁻	Standard Time-Current				
Test	DC test current	Starting state	Trip or no-trip time limit	Expercted putcome	Remark
а	1.05ln	Cold state	t≥1h(In≤63A) t≥2h(In>63A)	Does not trip	
b	1.3ln	Immediately after a test	t<2h(In>63A) t<1h(In≤63A)	trip	The current rises steadily to the specified value within 5S
С	8In	Cold state	t≥0.2s	Does not trip	Close the auxiliary switch
C	12In	Colu State	t<0.2s	trip	power on

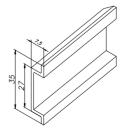
Wiring diagram



Dimensions







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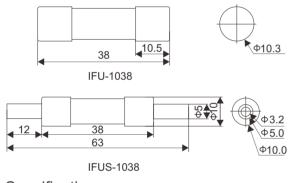


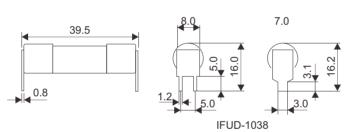
IFU-1038 Solar Fuse

Model		
IFU-1038	1A-32A	1000V DC
IFUD-1038	1A-32A	1000V DC
IFUS-1038	1A-32A	1000V DC

Parameter	
Fuse Size	10x38mm
Class of Operation	gPV
Standard	GB/T 13539.6 IEC60269-6
Breaking Capacity	20kA
Time Constant	1-3ms

Dimensions(mm)





Specifications

		I ² T	I ² T(A ² S)		
Model	Rated current	Pre-arcing	Total		
	1	0.15	0.4		
	2	1.2	3.3		
	3	3.9	11		
	4	10	27		
	5	18	48		
	6	31	89		
	8	3.1	31		
IFU-1038	10	7.2	68		
	12	16	136		
	15	24	215		
	16	28	255		
	20	38	392		
	25	71	508		
	30	102	821		
	32	176	976		

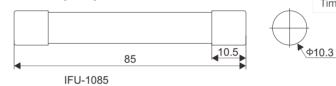


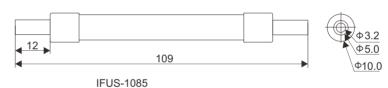
IFU-1085 Solar Fuse

Model		
IFU-1085	2A-32A	1500V DC
IFUS-1085	2A-32A	1500V DC

10x85mm 10X109mm
gPV
GB/T 13539.6 IEC60269-6
20kA
1-3ms

Dimensions(mm)





Specifications

Madal	Rated current	l ² T(A ² S)		
Model		Pre-arcing	Total	
	2	4	8	
	3	6	11	
	4	8	14	
	5	11	22	
	6	15	30	
IFU-1085	8	9	35	
11-0-1003	10	10	98	
	12	12	120	
	15	14	170	
	20	34	400	
	25	65	550	
	30	85	680	
	32	90	720	

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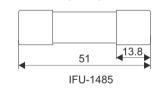


IFU-1485 Solar Fuse

Model		
IFU-1085	15A-50A	1000V DC
IFUB-1085	15A-32A	1500V DC

Parameter	
Fuse Size	14x51mm 14x85mm
Class of Operation	gPV
Standard	GB/T 13539.6 IEC60269-6
Breaking Capacity	20kA
Time Constant	1-3ms

Dimensions(mm)





Specifications

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Madal	Data La secolo	I ² T(A ² S)		
Model	Rated current	Pre-arcing	Total	
IFU-1485	15	330	275	
	20	220	578	
	25	275	956	
	30	380	1160	
	32	405	1830	
	40	600	2430	
	50	850	3050	



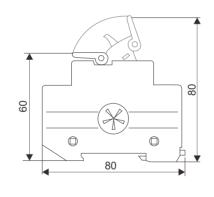
IFU-32/50/63

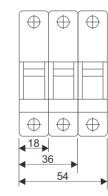
Fuse Base

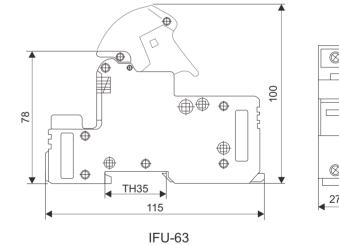
Model		
IFU-32	32A	1000V DC(10X38)
IFU-50	50A	1500V DC(14X51)
IFU-32L	50A	1500V DC(10X85)(14X85)
IFU-63	63A	(22X58)

Parameter	
Rated Voltage	1000V.dc 1500V.dc
Class of Operation	gPV
Standard	GB/T 13539.6 IEC60269-6

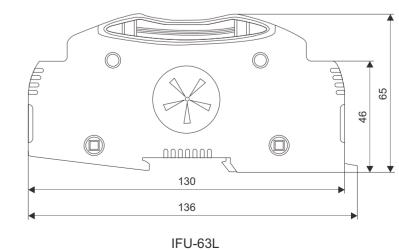
Dimensions(mm)







IFU-32



21.5

DC Product







ISP9-C40

PV surge protective device

Application

This DC surge protective device is applied low voltage standard IEC EN 61643-11 to protect against DC power 2.Fast response time, din rail installation; line system and other equipment from over voltage and 3.Double thermal disconnection devices, provide more reliable protection; instantaneous over voltage damage. Widely used in 4.Green window means normal, red means defect, need to change module; photovoltaic comber box, power inverter, DC distribution cabinet etc. It has advantages of large discharge current, 6.T1+T2 surge protection. fast respond time, low residual voltage. Max. PV voltage up to UCPV ≤1000V dc.

Main Features

- 1. High discharge capacity, quick response, module pluggable;

Model	IPS9-C	40 PV
Test standard	IEC/EN 61643-11; GB18802.11	
IEC test classification	T1+T2/Class I+II	
Max.PV voltage [Uc pv]	600V DC	1000V DC
Nominal discharge current(8/20µs)	20kA	
Maximum discharge current(8/20μs)	40kA	
Limp current(10/350µs)	6.25kA	
Poles	2P	2P/3P
Voltage protection level Up pv	≤2.6	≤3.6
Response time Ta	25ns	
Connecting cable	4mm ² (L-N);6mm ² (PE)	
Method of installation	35mm Din Rail	
Matched fuse or circuit breaker	32)	A
	Switching cont	act(Optional)
	C+NC:Norm	ally closed
Type of remote signaling contact	C+NO:Normally open	
	C:Common	n contact
Switching capacity	AC:250V/0.5A DC:250V/0.1A, 125V/0.2A,75V/0.5A	
Cross-sectional area for remote signal contact	Max.1.5mm ² solid / flexible	
Operating temperature range	40°C	+80°C

DC Product





ISP9-C40

PV surge protective device

Application

This DC surge protective device is applied low voltage standard IEC EN 61643-11 to protect against DC power 2. Fast response time, din rail installation; line system and other equipment from over voltage and 3. Double thermal disconnection devices, provide more reliable protection; photovoltaic comber box, power inverter, DC distribution cabinet etc. It has advantages of large discharge current, 6. T1+T2 surge protection. fast respond time, low residual voltage. Max. PV voltage up to UCPV ≤1500V dc.

Main Features

- 1. High discharge capacity, quick response, module pluggable;

- instantaneous over voltage damage. Widely used in 4. Green window means normal, red means defect, need to change module;

Model	IPS9-C40 PV
Test standard	IEC/EN 61643-11; GB18802.11
IEC test classification	T1+T2/Class I+II
Max.PV voltage [Uc pv]	1500V DC
Nominal discharge current(8/20µs)	20kA
Maximum discharge current(8/20μs)	40kA
Limp current(10/350µs)	6.25kA
Poles	3P
Voltage protection level Up pv	≤5.6kV
Response time Ta	25ns
Connecting cable	$4\text{mm}^2(\text{L-N});6\text{mm}^2(\text{PE})$
Method of installation	35mm Din Rail
Matched fuse or circuit breaker	32A
	Switching contact(Optional)
Type of remote signaling contact	C+NC:Normally closed
	C+NO:Normally open
	C:Common contact
Switching capacity	AC:250V/0.5A DC:250V/0.1A, 125V/0.2A,75V/0.5A
Cross-sectional area for remote signal contact	Max.1.5mm ² solid / flexible
Operating temperature range	40°C+80°C

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DC Product



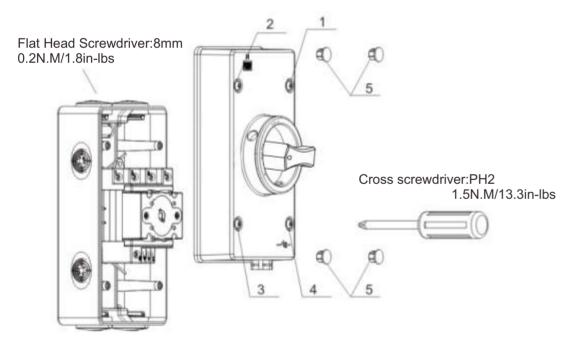


ISW-N32/4

Enclosure DC Isolator

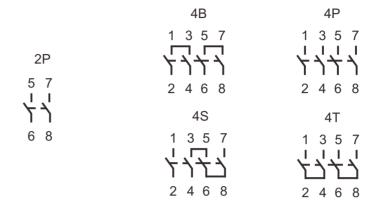
Instructions for installation and operation

- Be sure number (1,3,5,7) on switch and "IP66NW" on cover are not inverted
- Rotate Handel to the "OFF" position and locate shaft into switch body.
- Tighten screw 1,3,2,4 IN THAT ORDER.
- Make sure that number(5) is assembled on cover

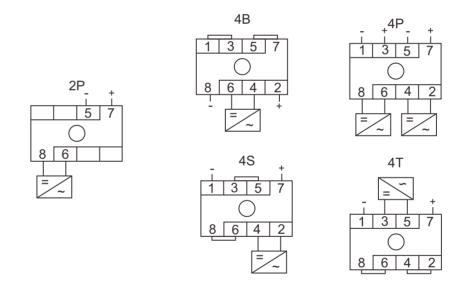


The switch with a box is suitable for outdoor use, Ithe solar at 40°C=32A, Ithe solar at 60°C=29A Please note that all connections (including bridging link connections) should be tightening before energization.

DC Switch Disconnector for Photovoltaics Wiring diagram



Switch examples



Cable cross sections

Screwdriver, Tightening torque





4-10mm², AWG 11-7

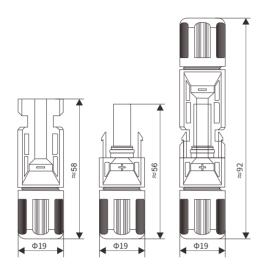




Solar DC Connector

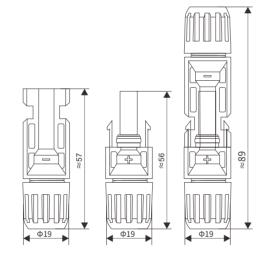
ISC4-TM4(1000V) ISC4-TM4-1(1000V)





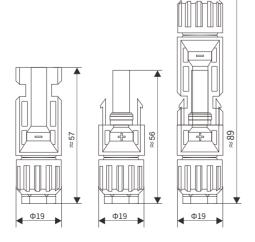
ISC4-TM3(1000V) ISC4-TM3-1(1000V)





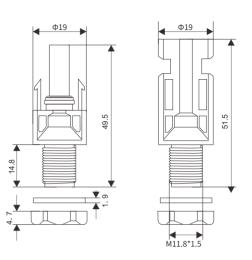
ISC4-TM2(1000V) ISC4-TM2-1(1000V)



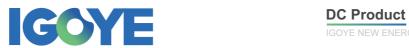


ISC4-TM1(1000V) ISC4-TM1-1(1000V)





Data	
Connector system	Ф4тт
Rated voltage	1000V DC(IEC) ¹
Rated current	17A(1.5mm²) 22A(2.5mm²;14AWG) 30A(4mm²,6mm²;12AWG,10AWG)
Test voltage	6kV(50HZ,1min)
Ambient temperature range	-40°C90°C(IEC) -40°C75°C(IEC)
Upper limiting temper ature	+105°C(IEC)
Degree of protection,mated	IP67
Unmated	IP2X
Comtact resistance of plug connectors	0.5mΩ
Safetyclass	II
Contact material	Messing, verzinnt Copper Alloy, tin plated
Insulation material	PC/PPO
Locking system	Snap-in
Flame class	UL-94-VO
Salt mist spray test, degree of severity 5	IEC 60068-2-52



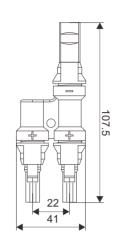
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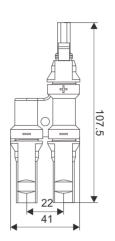
IGOYE

ISC4-T2

Branch Connector

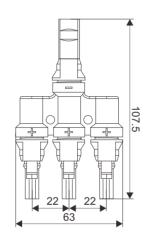


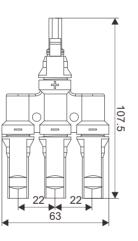




ISC4-T3

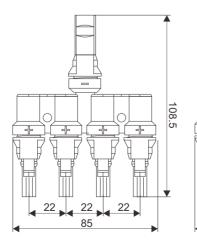


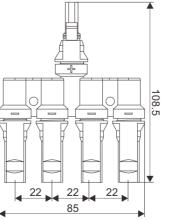




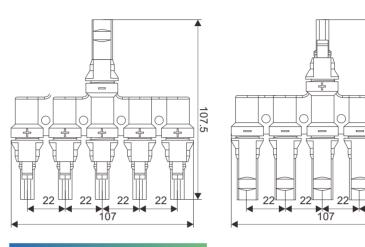
ISC4-T4





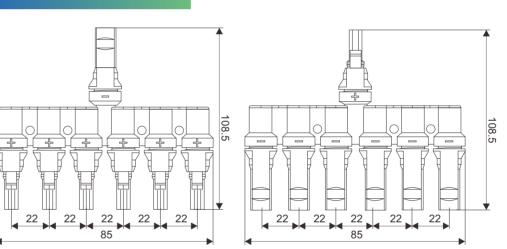


ISC4-T5





ISC4-T6





Data	
Insulation Material	PPO
Contact Material	Copper, Tin plated
Suitable Current	30A
Rated Voltage	1000V(TUV) 600V(UL)
Test Voltage	6kV(TUV50HZ,1min)
Contact Resistance	<0.5mΩ
Degree Of Protection	IP67
Ambient Temperature Range	-40°C ~ +85°C
Flame Class	UL 94-V0
Safety Class	II
Pin Dimensions	Ф4mm



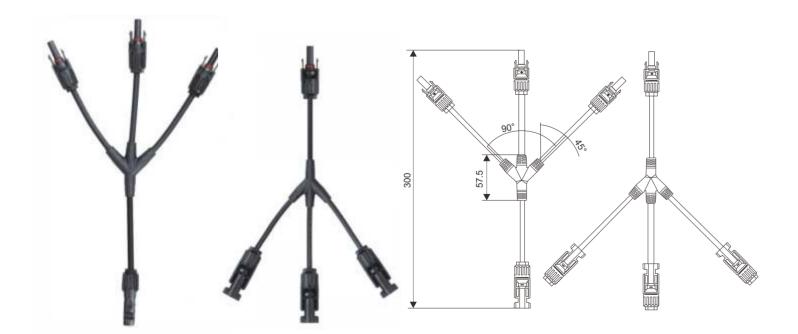
IGOYE NEW ENERGY TECHNOLOGY



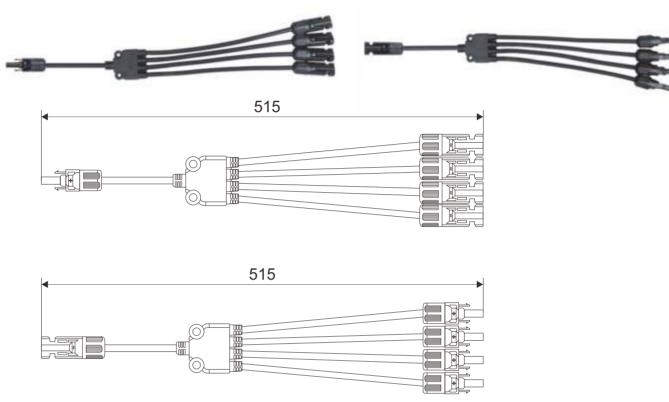
ISC4-TY2



ISC4-TY3



ISC4-TY4



Data	
Connector system	Ф4mm
Rated voltage	1000V DC(IEC) ¹
Rated current	30A
Test voltage	6kV(50HZ,1min)
Ambient temperature range	-40°C90°C(IEC) -40°C75°C(IEC)
Upper limiting temper ature	+105°C(IEC)
Degree of protection,mated	IP67
Unmated	IP2X
Comtact resistance of plug connectors	0.5mΩ
Safetyclass	II
Contact material	Messing, verzinnt Copper Alloy, tin plated
Insulation material	PC/PA
Locking system	Snap-in
Flame class	UL-94-VO
Salt mist spray test, degree of severity 5	IEC 60068-2-52



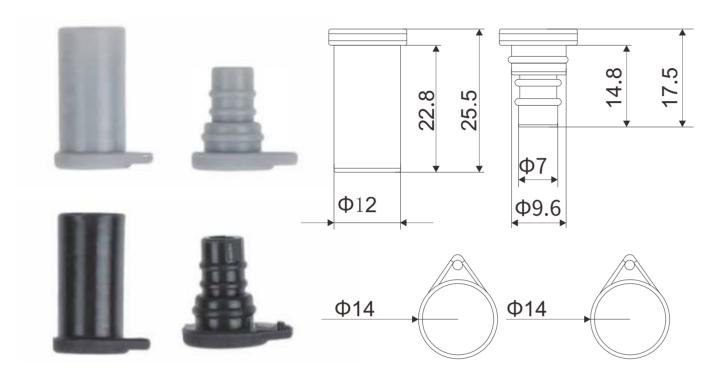
DC Product

IGOYE NEW ENERGY TECHNOLOGY



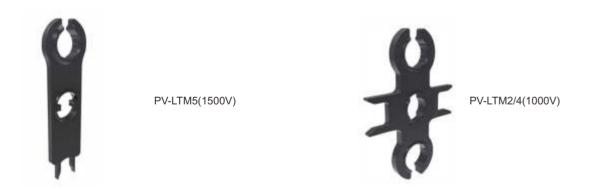
ISC4-T008

Protection caps



ISC4-T006

Tow-set spanners



ISC4-T001

Crimping Tool



ISC4-T002





ISC4-T003



MAIN SPECOALITY
Suitable for crimping the cable of 2.5~6.0mm2 (AWGI0-14)

ISC4-T005



Suitable for solar system installation site,flexible application









ISC1S

Single Pole Connector 30~180A

Model	Current Rating (Amps)	Voltage Rating (Volts)	Terminal Material	Plastic Shell Material	Flammability	Internal shrapnel (mm²)	Operating Temperature Range(°C)	Connector Specification (mm²)
ISC1S-30A	30							1.5-4
ISC1S-75A	75	600V	Cu/Ep&Ag	PC	UL94V-0	65Mn -20°C~	-20°C~105°C	4-16
ISC1S-120A	120	600 V					-20 C*105 C	10-25
ISC1S-180A	180							10-50



ISC2S

Two Pole Connector 40~350A

Model	Current Rating (Amps)	Voltage Rating (Volts)	Terminal Material	Plastic Shell Material	Flammability	Internal shrapnel (mm²)	Operating Temperature Range(°C)	Connector Specification (mm²)
ISC2S-40A	40							4-6
ISC2S-50A	50				UL94V-0	65Mn -2	-20°C~105°C	4-12
ISC2S-120A	120	600V	Cu/Ep&Ag	PC				10-25
ISC2S-175A	175							10-50
ISC2S-350A	350							10-70



50A~120A Accessories-connector Handles



175A~350A Accessories-connector Handles



50A~350A Accessories-connector Dust Cover



ISC3S 50A Waterproof Plug of Parking Air Conditioner



ISC4S-320A Four Pole Connector



ISCBS-1
Boiler High Temperature Resistant
Liquid Level Electrode Rod







ISC001

ISC002

ISC003

ISC004



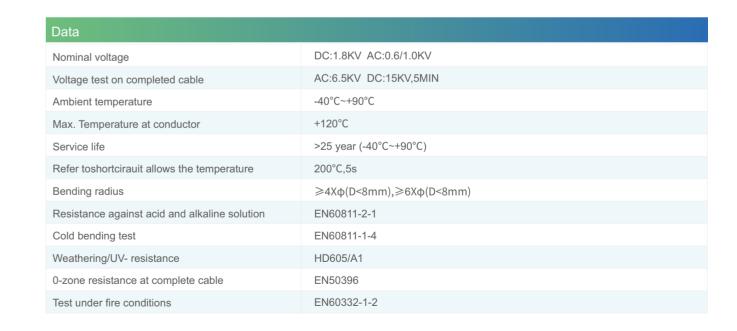


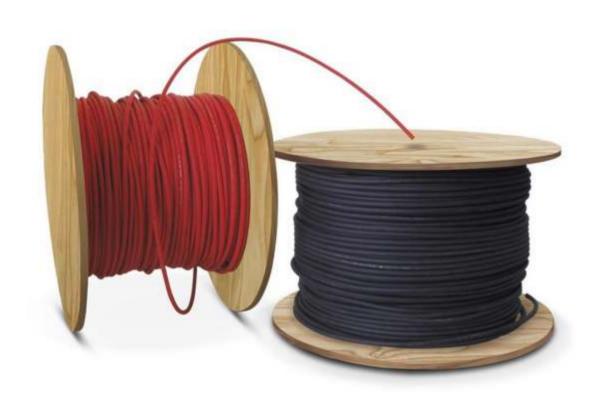
TüV 2PfG 1169 PV1-F 1X1.5mm² ~ 35mm² Multiple color



Construction	Conductor Construction	Conductor Outer	Cable Outer	Resistance Max.	Current Carring Capacity AT 60°C
mm²	n x mm	mm	mm	Ω/Km	А
1 x 1.5	30 x 0.25	1.58	4.9	13.7	30
1 x 2.5	48 x 0.25	2.02	5.45	8.21	41
1 x 4.0	56 x 0.3	2.35	6.10	5.09	55
1 x 6.0	84 x 0.3	3.20	7.20	3.39	70
1 x 10	142 x 0.3	4.60	9.00	1.95	98
1 x 16	228 x 0.3	5.60	10.20	1.24	132
1 x 25	361 x 0.3	6.95	12.00	0.795	176
1 x 35	494 x 0.3	8.30	13.80	0.565	218

The current-carrying capacity is under the situation of laying the single cable in air





Solar Cable

71 Igoye Igoye 72









white black

IWEV

Type1 Wallbox EV Charger

SAE J1772 Connector

Data						
Model	IWEV-AM3-16	IWEV-AM3-32	IWEV-AM3-40	IWEV-AM3-50		
Current(adjustable current)	16A(8/10/13/16A)	32A(8/10/13/16/32A)	16A(12/24/28/30/32/40A)	50A(12/24/28/30/32/40/48/50A)		
Voltage	240V	240V	240V	240V		
Power	3.5KW	7KW	9.6KW	12KW		
Frequency		50/60Hz				
RCD (Optional)		Type A R	CD /Type A+DC 6mA RCD			
Communication(Optional)	Wifi, Bluetooth, App(Tuya)					
User interface	LED indicator + LCD display(2.8 inch)+ card swiping					
Certificate	CE, TUV					
Standard		EN IEC 61851-1:2	019, EN IEC 61000-6-1/2/3	/4:2019		
Charging interface		Type 1+5M o	cable or custom cable length	ns		
Cable specification	3G2.5mm ² +2*0.5m	m ² 3G6mm ² +2*0.5mm ²	3G8mm ² +2*0.5mm ²	5G10mm ² +6mm ² +1.5mm ²		
Degree of protection	Charging gun: IP55, charging station:IP65					
Operating temperature	-30°C to 55°C					
Operating humidity	5%-95%					
Product dimensions(H*W*D)mm	310*161*79.8mm					
Net weight	3kg	3.5kg	4kg	5kg		

Product performance

Over voltage protection, Undervoltage protection, Overload protection, Leakage Protection, Ground protection, Over temperature protection, Lightning protection, Short circuit protection



IWEV

Type2 Wallbox EV Charger

Data				
Model	IWEV-AM3-16	IWEV-AM3-32	IWEV-AM3-16P3	IWEV-AM3-32P3
Current(adjustable current)	16A(8/10/13/16A)	32A(8/10/13/16/32A)	16A(8/10/13/16A)	32A(8/10/13/16/32A)
Voltage	250V	250V	415V	415V
Power	3.5KW	7KW	11KW	22KW
Frequency		50/6	0Hz	
RCD (Optional)		Type A RCD /Type	A+DC 6mA RCD	
Communication(Optional)	Wifi, Bluetooth, App(Tuya)			
User interface	LED indicator + LCD display(2.8 inch)+ card swiping			
Certificate	CE, TUV			
Standard		EN IEC 61851-1:2019, EN	IEC 61000-6-1/2/3/4:2019	
Charging interface		Type 2+5M cable or o	custom cable lengths	
Cable specification	3G2.5mm ² +2*0.5mm ²	3G6mm ² +2*0.5mm ²	5G2.5mm ² +2*0.5mm ²	5G6mm ² +2*0.5mm ²
Degree of protection		Charging gun: IP55,	charging station:IP65	
Operating temperature	-30°C to 55°C			
Operating humidity	5%-95%			
Product dimensions(H*W*D)mm	310*161*79.8mm			
Net weight	3kg	3.5kg	4kg	5kg

Product performance

Over voltage protection, Undervoltage protection, Overload protection, Leakage Protection, Ground protection, Over temperature protection, Lightning protection, Short circuit protection







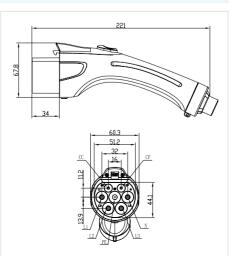


IPEC-E-AC

AC Charger(Car End)

Data		
Environmental performance		
Operating temperature	-30°C~+50°C	
Degree of protection	IP55	
Electrical performance		
Rated current	16A/20A/32A/40A	
Operation voltage	250/480V	
Insulation resistance	>1000MΩ (DC500V)	
Contact Resistance	0. 5mΩ Max	
Terminal temperature rise	<50K	
Withstand voltage	2500V	
Mechanical properties		
Mechanical life	no-load plug in/out >10000times	
Coupled insertion force	45N <f<100n< td=""></f<100n<>	
Impact of external force	It can withstand 1m height drop and 2t vehicle rolling	
Applied Materals		
Case material	Thermoplastic, flame retardant grade UL94 V-0; Shell color: white/black optional	
Terminal	Copper alloy, silver plating	

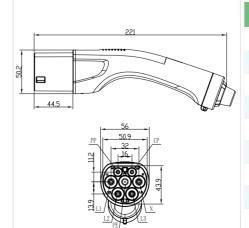
Product Model	Rated current	Rated current	Remarks
IPEC-AC-016-F501-X	16A	Single phase 3x2.5mm ² +2x0.5mm ² /	
IPEC-AC-020-F501-X	20A	TPU, $Φ10.5 ± 0.5$	"X"after the
IPEC-AC-016-F701-X	16A	Three phase 5x2.5mm ² +2x0.5mm ² /	model represents
IPEC-AC-020-F701-X	20A	TPU, Φ13±0.5	the wire length
IPEC-AC-032-F501-X	32A	Single phase 3x6mm ² +2x0.5mm ² /	Cable color:
IPEC-AC-040-F501-X	40A	TPU, Φ13±0.5	black/orange optional
IPEC-AC-032-F701-X	32A	Single phase 5x6mm ² +2x0.5mm ² /	
IPEC-AC-040-F701-X	40A	TPU, Φ16±0.5	





IPEC-E-AC AC Charger(Pile End)

Data	
Environmental performance	
Operating temperature	-30°C~+50°C
Degree of protection	IP55
Electrical performance	
Rated current	16A/20A/32A/40A
Operation voltage	250/480V
Insulation resistance	>1000MΩ (DC500V)
Contact Resistance	0. 5mΩ Max
Terminal temperature rise	<50K
Withstand voltage	2500V
Mechanical properties	
Mechanical life	no-load plug in/out >10000times
Coupled insertion force	45N <f<100n< td=""></f<100n<>
Impact of external force	It can withstand 1m height drop and 2t vehicle rolling
Applied Materals	
Case material	Thermoplastic, flame retardant grade UL94 V-0; Shell color: white/black optional
Terminal	Copper alloy, silver plating



	Product Model	Rated current	Rated current	Remarks
	IPEC-AP-016-F501-X	16A	Single phase 3x2.5mm ² +2x0.5mm ² /	
	IPEC-AP-020-F501-X	20A	TPU, Φ10.5±0.5	"X"after the
,	IPEC-AP-016-F701-X	16A	Three phase 5x2.5mm²+2x0.5mm²/	model represents
/	IPEC-AP-020-F701-X	20A	TPU, Φ13±0.5	the wire length
	IPEC-AP-032-F501-X	32A	Single phase 3x6mm ² +2x0.5mm ² /	Cable color:
	IPEC-AP-040-F501-X	40A	TPU, Φ 13 \pm 0.5	black/orange optional
	IPEC-AP-032-F701-X	32A	Single phase 5x6mm²+2x0.5mm²/	·
	IPEC-AP-040-F701-X	40A	TPU, Φ16±0.5	







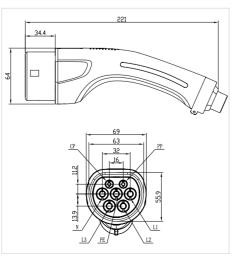


IPEC-E **Mode 2 Charger**

Data	
Environmental performance	
Operating temperature	-30°C~+50°C
Degree of protection	IP55
Electrical performance	
Rated current	16A
Operation voltage	250V
Insulation resistance	>1000MΩ (DC500V)
Contact Resistance	0. 5mΩ Max
Terminal temperature rise	<50K
Withstand voltage	2500V
Mechanical properties	
Mechanical life	no-load plug in/out >10000times
Coupled insertion force	45N <f<100n< td=""></f<100n<>
Impact of external force	Can afford 1m drop
Applied Materals	
Case material	Thermoplastic, flame retardant grade UL94 V-0
Terminal	Copper alloy, silver plating

Product Model	Remarks
IPEC-AC-B01-016-XA	
IPEC-AC-B01-016-XB	"X"after the model represents the wire length, such as "5A,6A" Cable color: black/orange optional
IPEC-AC-B01-016-XC	5,

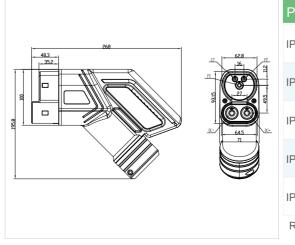
Control Box Function		
Leakage protection	Over load protection	Grounding protection
Overvoltage under-voltage protection	Lightning protection	Over temperature protection





IPEC-E **DC Charger**

Data	
Environmental performance	
Operating temperature	-30°C~+50°C
Degree of protection	IP55
Electrical performance	
Rated current	63A/80A/125A/160A/200A
Operation voltage	1000V
Insulation resistance	>1000MΩ (DC500V)
Contact Resistance	0. 5mΩ Max
Terminal temperature rise	<50K
Withstand voltage	3500V
Mechanical properties	
Mechanical life	no-load plug in/out >10000times
Coupled insertion force	45N <f<100n< td=""></f<100n<>
Impact of external force	It can withstand 1m height drop and 2t vehicle rolling
Applied Materals	
Case material	Thermoplastic, flame retardant grade UL94 V-0; Shell color: white/black optional
Terminal	Copper alloy, silver plating



Product Model	Rated current	Rated current
IPEC-DC-063-F501-X	63A	2x16mm ² +1X16mm ² +P(5X0.75mm ² +1X0.75mm ²)
IPEC-DC-080-F501-X	80A	/TPU, Φ23±1
IPEC-DC-125-F701-X	125A	$2x35mm^2 + 1X25mm^2 + P(5X0.75mm^2 + 1X0.75mm^2) \\ /TPU, \Phi 29 \pm 1$
IPEC-DC-160-F701-X	160A	$2x50mm^2 + 1X25mm^2 + P(5X0.75mm^2 + 1X0.75mm^2) \\ / TPU, \ \ \oplus \ \ \pm 1$
IPEC-DC-200-F501-X	200A	$2x70mm^2 + 1X25mm^2 + P(5X0.75mm^2 + 1X0.75mm^2) \\ / TPU, \Phi 35 \pm 1$
Remarks "X"after the model represents the wire length Igoye 78		

Cable color: black/orange optional





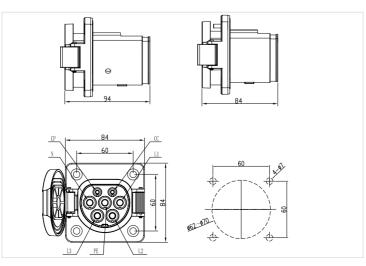




IEVC GB AC Charging Socket

Data	
Environmental performance	
Operating temperature	-40°C~+1050°C
Degree of protection	IP55
Electrical performance	
Rated current	16A/32A
Operation voltage	250V/440V
Insulation resistance	>1000MΩ (DC500V)
Contact Resistance	0. 5mΩ Max
Terminal temperature rise	<50K
Withstand voltage	2500V
Mechanical properties	
Mechanical life	no-load plug in/out >10000times
Coupled insertion force 45N <f<100n< td=""></f<100n<>	
Applied Materals	
Case material	Thermoplastic, flame retardant grade UL94 V-0; Shell color: white/black optional
Insert sleeve	Copper alloy, silver plating
Sealing element	Rubber or silica gel

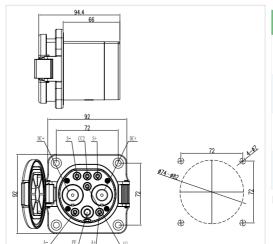
Product Model	Remarks
IEVC-AC-016-G501-WX	
IEVC-AC-016-G701-WX	"X"after the model represents the wire length, such as "W5, W6"
IEVC-AC-032-G501-WX	Cable color: black/orange optional
IEVC-AC-032-G701-WX	





IEVC GB DC Charging Socket

Data	
Environmental performance	
Operating temperature	-40°C~+1050°C
Degree of protection	IP55
Electrical performance	
Rated current	80A/250A
Operation voltage	1000V
Insulation resistance	>2000MΩ (DC500V)
Contact Resistance	0.5mΩ Max
Terminal temperature rise	<50K
Withstand voltage	3500V
Mechanical properties	
Mechanical life	no-load plug in/out >10000times
Coupled insertion force 45N <f<100n< td=""></f<100n<>	
Applied Materals	
Case material	Thermoplastic, flame retardant grade UL94 V-0; Shell color: white/black optional
Insert sleeve	Copper alloy, silver plating
Sealing element	Rubber or silica gel



Product Model	Rated current	Rated current
IEVC-DC-080-G901-CX	80A	2x25mm²+25mm²+2X4mm²+7X0.75mm² /Single core wire
IEVC-DC-080-G901-CX	125A	2x35mm²+25mm²+2X4mm²+7X0.75mm² /Single core wire
IEVC-DC-080-G901-CX	160A	2x50mm²+25mm²+2X4mm²+7X0.75mm² /Single core wire
IEVC-DC-080-G901-CX	250A	2x70mm²+25mm²+2X4mm²+7X0.75mm² /Single core wire

Remarks "X"after the model represents the wire length, such as "C5,C6..." Cable color: black/orange optional





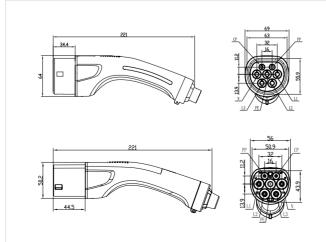




IPEC-ACP Double Charger

Data	
Environmental performance	
Operating temperature	-30°C~+50°C
Degree of protection	IP55
Electrical performance	
Rated current	16A/20A/32A/40A
Operation voltage	250/480V
Insulation resistance	>1000MΩ (DC500V)
Contact Resistance	0.5mΩ Max
Terminal temperature rise	<50K
Withstand voltage	2500V
Mechanical properties	
Mechanical life	no-load plug in/out >10000times
Coupled insertion force	45N <f<100n< td=""></f<100n<>
Impact of external force	It can withstand 1m height drop and 2t vehicle rolling
Applied Materals	
Case material	Thermoplastic, flame retardant grade UL94 V-0; Shell color: white/black optional
Terminal	Copper alloy, silver plating

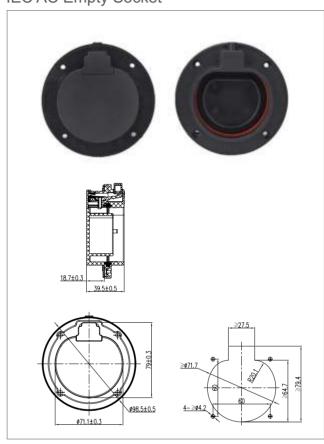
Product Model	Rated curren	t Rated current
IPEC-ACP-016-F501-X	16A	Single phase 3x2.5mm²+2x0.5mm²/
IPEC-ACP-020-F501-X	20A	TPU, Φ10.5±0.5
IPEC-ACP-016-F701-X	16A	Three phase 5x2.5mm ² +2x0.5mm ² /
IPEC-ACP-020-F701-X	20A	TPU, Φ13±0.5
IPEC-ACP-032-F501-X	32A	Single phase 3x6mm²+2x0.5mm²/
IPEC-ACP-040-F501-X	40A	TPU, Φ13±0.5
IPEC-ACP-032-F701-X	32A	Single phase 5x6mm²+2x0.5mm²/
IPEC-ACP-040-F701-X	40A	TPU, Φ16±0.5



IEVC

IEC Empty Sockets And Accessories

IEC AC Empty Socket



IEC DC Empty Socket

AC Empty socket installation screw accessories M4 nut/4 pcs Φ 4 spring cushion/4 pcs Φ 4 flat washer/4 pcs Hexagon socket countersunk head screws M4 X 20/4 pcs

DC Empty socket installation screw accessories M6 nut/4 pcs Φ6 spring cushion/4 pcs Φ 6 flat washer/4 pcs Hexagon socket countersunk head screws M4 X 20/4 pcs









IYPC2-C

Type2 Wallbox EV Charger

Brief description

Control the communication of the electric vehicle AC charging process complies with IEC 61851 or SAEJ1772 standards.

Conform to DINEN60715 installation requirements.

The output of the relay is used to connect the AC contactor that switches on/off the load.

The operating status of the EV interface is indicated by three-color LED lights.

The controller additional functions include: non-contact IC card connection module, DC leakage detection module(RCMU), RS485 communication interface equipment, plug lock device, external emergency stop button, etc. These functions must be NOTED when ordering.

Data	
Operating voltage	AC230V ± 10% 50Hz
Output the PWM signal	10A/16A/20A/25A/32A/63A
Output control AC contactor	Passive contacts
Additional connection function(optional)	1.RCNU leakage monitoring mode(0-20mA/0-200mA) 2.Non-contact IC Card 3.DLB cuttent
	balance mode 4.Current sensor access mode (DC+12V Output 0-5V) 5.With LCD display
Communication function(optional)	1way RS485(Modebus-RTU)/RS232
Output auxiliary voltage	DC 12V/100mA DC5V/100mA
Ambient temperature	-40°C~+50°C
Humidity	≤ 85%
IP degree	IP22
Cooling method	Natural cooling
Installation method	DIN rail standard
Weight	40g

Maximum charging capacity indication 10A,16A,20A,25A,32A, Through the internal dial switch

Terminal description of the controller

E (6)	H (12)	50	24 🛦	18 E
E (5)	g (1)	FAULT	23 ‡	17) E
2 4	10	ARGE 1584 1584 1584 1584 1584 1584 1584 1584	22 \$	16 5
∑ ③	∂ 🧐		21) 🖺	15) ½
z ②	불 ⑧	z	@ එ	14 ₺
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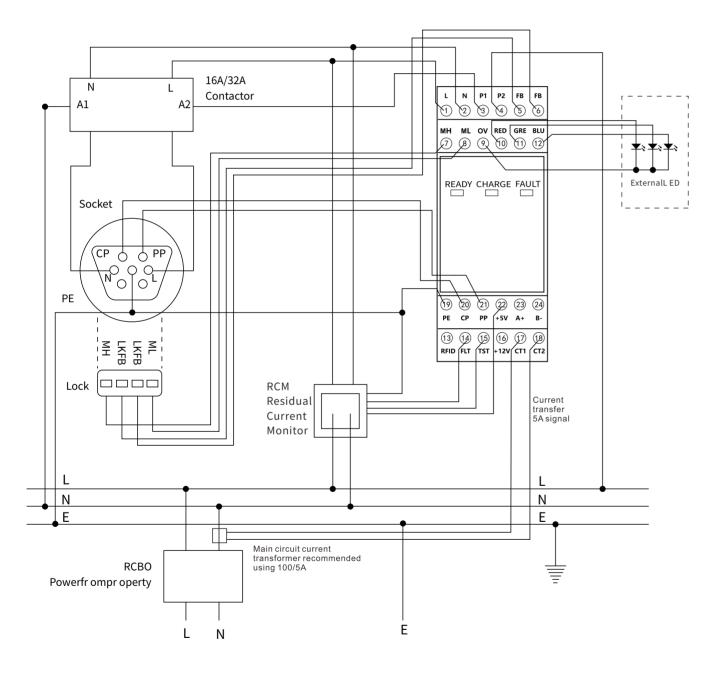
Terminal function description

Serial	Mark	Function		
number 1	L	Live line		
1	L	Live line	Product working power supply:AC230V± 10% 50Hz	
2	N	Neutral line		
3	P1	Relay coil A1	AC contactor connected to the connection load of charging station	
4	P2	Relay coil A2	AC contactor connected to the connection load of charging station	
5	FB	Reflect signal of the	This is the feeback signal on the electromagnetic lock directly to the passive	
6	FB	electromagnetic lock	contact output terminal of the electromagnetic lock	
7	LK+	Electromagnetic lock positive voltage	Provide positive and negative pulse voltage of tlectromagnetic lock, duty cycle of	
8	LK-	Electromagnetic lock positive voltage	output pulse(1:3)and total pulse output maximum driving capacity of 500ms	
9	0V	Earth terminal		
10	RED	Red LED	External indicator light, DC 5V/10mA drive capability	
11	GRE	Blue LED	External indicator right, 50 397 forms drive capability	
12	BLU	Green LED		
13	IC	IC card-controlled input signal	The signal of external non-contact IC card reading module, input is TTL voltage signal,DC3.5V/5V	
14	FLT	RCMU fault signal(DC3.3V/5V)output terminal	When the controller detects this end signal, means this line occur fault(including >DC6mA leakage signal), the controller will cut off the charging power, untill this fault signal is solved, the controller will automatic resumes the charging state.	
15	TST	RCMU test signal(DC3.3V/5V),the input terminal	The controller outputs the test signal before each charging, using to check that the working of the RCMU whether normal	
16	+12V	+12V Power Supply	DC+12V/100mA Power output	
17	CT1	Current transformer	When the controller requires DLB function, it requires connect to current transformer signal, the signal is:AC0-1.0V/0-50A.This function can dynamically	
18	CT2		balance the power load, adjust the output in time, control the charging current, and protect the safety of the power supply line.	
19	PE	Power supply	Earth terminal	
20	CP	Connect to the vehicle CP	Communication connection with electric vehicle, output PWM wave	
21	PP	Charging cable current identification	When this end is a socket tyoe charging station, it identify the current specification of charging cable	
22	+5V	+5V Power Supply	Supply DC 5V/100mA power output	
23	A+	A+ for RS485 Communications	It can communicate with RS485 equipment. The communication standard conforms	
24	B-	B+ for RS485 Communications	to Modbus-RTU slave mode. Baud rate:38400,N,8,1 address number defaule (Broadcast address) See Table A for details	



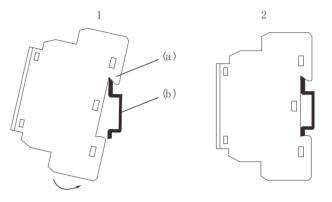


Application circuit diagram

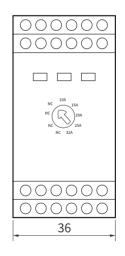


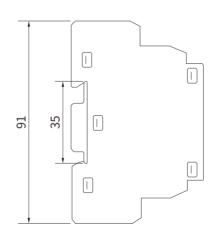
Easy installation

- 1. Install the controller(a) vertically onto the horizontal DIN rail(b)
- 2.Rotate the controller down until the cilp into the Din (Note: DIN rail accordance with German industrial standars)



Overall dimension(mm)















Introduce

IHC9 series household AC contactors have independent intellectual property rights, which is different from the imitation Schneider product structure in the market and is limited in foreign markets.

The design of S series household AC contactor solves the four common sore points in the market: Improve the dust-proof performance of the product; Optimize the wiring mode and improve the wiring capacity; Enhance the wall thickness of the body and improve the hand feel and texture of the product; Optimize and improve the heat insulation parts.

Scope of application

IHC9 series household AC contactors (hereinafter referred to as Contactors) are mainly used in circuits with AC 50Hz (or 60Hz), rated working voltage to 400V and rated working current to 63A to control low (micro) inductance load of household appliances and similar purposes; It can also be used to control the load of household motor. At this time, the control power shall be reduced accordingly. The products are used in families, hotels, apartments and other places to implement the automation function, and are applied to the large-scale production of household appliances.

Standards: GB / T 17885, IEC / EN 61095.

Normal working and installation conditions				
Ambient air temperature	The temperature shall not be higher than +60°Cor lower than -5°C. When the product is installed in the power distribution box, thermal insulation parts must be assembled on both sides to facilitate heat dissipation			
Altitude	Not exceeding 2000m			
Atmospheric conditions	The relative humidity of the air at the installation site shall not exceed 50% when the maximum temperature is +40°C; Higher relative humidity is allowed at lower temperature, such as 90% at +20°C. And special measures shall be taken for occasional condensation due to temperature changes.			
Atmospheric condition pollution level	Level 2			
Installation category	level II			
Shock vibration	There shall be no significant shock and vibration at the installation position			
Installation mode	TH35-7.5 profile steel mounting rail is used for installation			
Installation conditions	The installation position shall be vertical, and the inclination in each direction shall not exceed $\pm 5^\circ$			
Degree of protection	IP20			
Action conditions	Pull in voltage under operating conditions(85%~110%)Us; The release voltage is (20%~75%)Us			

Main parameters and technical performance

Classification by number of poles: contactors are divided into 1P/2P/3P/4P

Normal working an	nd installation o	conditions							
Parameter					Produc	t model			
r didiliotoi			16A	20A	25A	32A	40A	63A	
Rated current In(A)		AC-7a	16	20	25	32	40	63	
()		AC-7b	6	7	8.5	12	15	20	
Agreed heating curren	t Ith(A)		25	25	25	63	63	63	
Rated insulation voltage			50	0					
Rated working voltage Ue(V)				250	V(1P 2P)	400V(3P 4	1P)		
		1P			1NO /	1NC			
Number of main contact	cts	2P		21	NO / 2NC	/ 1NO1N0			
		3P			3NO /	3NC			
		4P	4NO / 4NC / 2NO2NC / 3NO1NC						
	AC-7a	230V	3.5	4.5	5.5	8	9	14	
Control power Pe(kW)	A0-14	400V	6.5	8	10	12	16	25	
	AC-7b	230V	1.4	1.6	2	3	3.5	4.5	
	A0-10	400V	2.4	2.8	3.4	4.5	6	8	
Electrical life(10000 time	es)				10)			
Mechanical life(10000 ti	mes)		100						
Rated power supply vol	tage Us(V)		AC24V AC230V						
Rated working system	Intermit	tent working system		30	times/h loa	d factor 40	%		
,g	Е	ight-hour day		I	Basic worki	ng system			
	Control loop	Hard wire		1.5~2.5			2x1.5		
Wiring capacity(mm²)	Control 100p	Flexible cord		1.5~2.5			2x2.5		
· · · · · · · · · · · · · · · · · · ·	Power circuit	Hard wire		1.5~6			6~25		
	. 01101 0110411	Flexible cord		1~4			6~16		
	Control loop	Specification of wiring screw	M3.5			M3.5			
Tightening torque(N.m)	30111101 100p	Torque(N.m)		0.8			0.8		
nghoming torque(14.111)	Power circuit	Specification of wiring screw		M3.5			M5		
	1 OWEI CITCUIT	Torque(N.m)		0.8			3.5		

Product features

IHC9 household AC contactors adopt direct acting flip structure , which is different from existing Schneider products and has multiple patent rights.

The product is a modular control electrical appliance with novel structure and small volume. It is characterized by modular size, artistic modeling (matching with the appearance of C65N circuit breaker) and safe use (greatly improving the dust-proof effect). It can be combined with small circuit breaker and installed in the control and lighting box. The use of high-quality insulating materials greatly improves the safety. Beautiful appearance, low noise, suitable for hotels, hospitals and other places.









IYL9 A

RCCB

Scope of application

IYL9 residual current circuit breaker (without overcurrent protection) is suitable for AC 50Hz, rated voltage 240V for two poles, 415V for four poles, and rated current up to 80 A. It can quickly cutoff the fault power in a very short time,

To protect the safety of people and electrical equipment, it can also be used for infrequent switchingoflines.

It's suitable for terminal distribution lines in commercial office buildings, residential and generalindustrialuse.

Compliantwith:IEC61008-1,GB16916.1

Technical parameter

Electrical C	Electrical Characteristics										
Classification	Protection type		Dalas	Rated	Rated sensitivity	Sensitivity		Rated			
Classification	ELE	ELM	Poles	current(In)	(l\trian)	Instantaneous	Delayed	voltage(Ue)			
А		-	1P+N,3P+N	25/40/63/ 80A	10/30/100/ 300mA	•	•	1P+N:240V~ 3P+N:415V~			
Rated	Rated	Rated impulse	Rated residual	Short-circuit	Rated residual	Break time(Instantan					
insulation voltage(Ui)	frequency	withstand voltage(Uimp)	making and breaking capacity I∆ m	current Inc=l△c	non-operating current	Residual current l△=1l△n	Residual current I△=2I△n	Residual current I△=5I△n			
500V	50/60Hz	4kV	500A (below 63A) 10In(63A and above)	10kA (below 63A) 10kA(63A and above)	0.5I△n	0.1s	0.08s	0.04s			

Mechanical properties									
Mechanical life /Electric life	Protec	tion class	Ambient temperature	Storage temperature					
	Direct install	In distribution boxl	Ambient temperature	Storage temperature					
4000	lp20	lp40	-25°C+60°C	-25°C+70°C					

Other characteristics										
Wiring size		Contact Status	Fault	Circuit	Connection	Assemblable				
Copper/Hard Wire	Cord/Hoop Terminals	Indication	Indication	identification	Connection	accessories				
1-35mm²	1-25mm ²			_	Top and bottom (ELM) Top line(ELE)					



IYL9-B

RCCB

Scope of application

GYL9-Bresidual current operated circuit breaker is suitable for AC 50Hz, rated voltage 240V for two poles, 415V for four poles, rated current up to 63A, used to detect AC leakage, pulsating DC leakage, smooth DC leakage, compound wave leakage and high frequency leakage current up to 1kHz. When people come to electric shock or the leakage current of the circuit exceeds the specified value, it automatically cuts off the faulty power supply in a very short time to protect the safety of people and electrical equipment. It can also be used for infrequent switching operations in normal condition.

Compliant with:IEC62423,IEC 61008-1, GB22794,GB16916.1

Technical parameter

Electrical Char	Electrical Characteristics										
Classification	Application		Poles Rated current (In)		nt (In)	Rated sensitivity (I△n)	Rated Voltage (Ue)				
В	Electric car charging station, charging pile	Equipment cir controlled by t -phase invert	ree 1P+	N,3P+N	25、40、 63、80A		30、100、 300mA	1P+N:240V~ 3P+N:415V~			
Rated Insulation voltage (Ui)	Rated freque	ncy w	d impulse hstand ge (Uimp)	current	current Inc=rated c		nted residual nnecting and aking capacity Inc=l∆c	Rated residual non-operating current			
500V	50/60Hz		4kV	(63A	500A below) 10In and above)		6kA	0.5l△n			

Mechanical properties								
Mechanical life	Protection	on class	Ambient temperature	Storage temperature				
/Electric life	Direct install	In distribution boxl	Ambient temperature	Storage temperature				
4000	lp20	lp40	-25°C+60°C	-25°C+70°C				

Other characteristics									
Wiring size		Contact Status	Fault Indication	Circuit identification					
Copper/Hard Wire	Cord/Hoop Terminals	Indication	Indication	1dentification					
1-35mm²	1-25mm²								









IYL9 A+EV RCCB

Scope of application

IYL9 type A+EV leakage current circuit breaker is suitable for protection of AC facilities with charging mode 3, DC leakage current of more than6mA.whenthereisaresidualfaultcurrent of more than 6mA in the system, it can automatically cuts off the fault power in very short time. It is used to detect the DC residual current greater than 6mA in the AC system. According to the IEC61851 standard, it should be used with the RCD with type A residual current protection characteristics, which provides protection against possible ground faults.

Technical parameter

Electrical Ch	Electrical Characteristics										
Residual current operating type	Rated current (In)	Poles	Rated voltage	Rated Insulation voltage(Ui)	Rated frequency	Rated sensitivity (I△n)	DC current operating sensitivity I∆ndc				
A+EV	25/40/63A	2P/4P	240/415V	500V	50/60Hz	30mA	6mA				
Rated short circuit current Inc	Rated limited short-circuit current I∆c	Rated switch-on segment capacity Im	Rated switch-on segment capacity I∆m	Fuse selection	Rated impulse withstand voltage(1.2/50)	Dielectric test voltage	Pollution level				
6kA/10kA	6kA/10kA	500A(25A,40A) 630A(63A)	500A(25A,40A) 630A(63A)	Matching silver wire	4000V	2500V/1min	2				

Mechanic	Mechanical features										
Mechanical life	Electrical life	Leakage trip indication	Protection class	Ambient temperature (≤35°C)	Storage temperature	Wiring size	Installed	Wiring location			
10000	4000		IP20	-5~ +60°C	-25~ +70°C	35mm²	DIN 60715	Wiring up			

Rated residual current breaking time									
Mechanical	Rated sensitivity(I△n)	Res	Residual current segment time(S)						
life	reaced Scristivity (IZII)	l∆n	2l∆n	5l∆n					
	30	0.1	0.08	0.04					
25/40/63A0	Rated sensitivity(I△n)	Residual current segment time(S)							
20/40/00/10	rated solisitivity (iZii)	6mA	60mA	200mA					
	30	10	0.3	0.1					



IYL10-A
RCCB

Scope of application

IYL10 residual current circuit breaker (without overcurrent protection) is suitable for AC 50Hz, rated voltage 240V for two poles, 415V for four poles, and rated current up to 63A. It can quickly cut off the fault power in a very short time,

To protect the safety of people and electrical equipment, it can also be used for infrequent switching of lines.

Compliant with :GB/T 16916.1, IEC 61008-1,CE, CBmarked.

Technical parameter

Electrical C	haracteristic	cs							
Classification	Protection type		Poles	Rated	Rated sensitivity	Sensitivity		Rated	
Classification	ELE	ELM	Poles	current(In)	(l△n)	Instantaneous	Delayed	voltage(Ue)	
А	•	-	1P+N,3P+N	25/40/63A	10/30/100/ 300mA		•	1P+N:240V~ 3P+N:415V~	
Rated		Rated impulse	Rated residual	Short-circuit	Rated residual	Break time(Instantaneous)			
insulation voltage(Ui)	Rated frequency	withstand voltage (Uimp)	making and breaking capacity I △ m	current Inc=l∆c	non-operating current	Residual current I∆=1I∆n	Residual current I∆=2I∆n	Residual current I∆=5I∆n	
500V	50/60Hz	4kV	500A (below 63A) 10In(63A and above)	6kA	0.5I n	0.1s	0.08s	0.04s	

Mechanical properties					
Machanical life/Flactric life	Protecti	on class	A male is not to many a material	Character to man another	
Mechanical life/Electric life	Direct install	In distribution box	Ambient temperature	Storage temperature	
4000	lp20	Ip40	-25°C+60°C	-25°C+70°C	
Other characteristics					
Miring oing					

	Wiring size		Contact Status	Fault	Circuit	Connection	Assemblable
	Copper/Hard Wire	Cord/hoop Terminals	Indication	Indication	identification	Connection	accessories
	1-25mm ²	1-16mm²				Top and bottom(ELM) Top line(ELE)	