

IGOYE



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SOLAR PRODUCT CATALOG

Empower the world with solar energy

ZHEJIANG IGOYE NEW ENERGY TECHNOLOGY CO.,LTD

SOLAR

Founded in 2007

IGOYE

IGOYE

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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Solar storage system

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Split Type ESS

- Energy**
4.6KWH ~ 13.82KWH
- Cycle Life**
6000次
- Service Life**
10年

Split Type Residential ESS (Battery)

Model		IESC-13.82	IESC-9.21	IESC-4.6
System Data	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		
	Max. Charge Current (A)	110	110	90
	Max. Discharge Current (A)	110	110	90
	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		
General Data	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		
	Storage Temperature (°C)	-20~45		
	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 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 on-grid, 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

- Power**
3KW ~ 5KW
- Energy**
4.6KWH ~ 18.43KWH
- Cycle Life**
6000 times
- 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
PV Input	Max. PV Input Power (W)	7000	7000	7000	4600
	Max. PV Input Voltage (V)	500			
	Startup Voltage (V)	150			
	MPPT Voltage Range (V)	125~500			
	Nominal Input Voltage (V)	360			
	Max. PV Input Current (A)	14			
	Max. Short-circuit Current (A)	14			
	No. of MPPT Trackers	2			
	Strings Per MPPT Tracker	1			
	Strings Per MPPT Tracker	1			
AC Input and Output	Nominal AC Power (W)	5000	5000	5000	3000
	Max. Apparent AC Power (W)	5000	5000	5000	3000
	Nominal AC Voltage [range] (V)	230 (176~270)	230 (176~270)	230 (176~270)	230 (176~270)
	Frequency (Hz)	50/60	50/60	50/60	50/60
	Max. AC Current (A)	21.7	21.7	21.7	13
	Displacement Power Factor	0.8Leading ... 0.8 Lagging			
EPS Output	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
	Frequency (Hz)	50/60	50/60	50/60	50/60
	Max. AC Current (A)	21.7	21.7	21.7	13
Efficiency	Switch Time	10ms			
	Total Harmonic Distortion	≤2%			
	Parallel Operation	Yes			
	Compatible with The Generator	Yes (Signal provided only)			
	European Efficiency	97%			
	Max. Efficiency	97.6%			
Battery Data	Battery Type	LiFePO4			
	Battery Voltage Range (V)	44.8~57.6			
	Nominal Voltage (V)	51.2			
	Max. Charge/Discharge Current (A)	95/110	95/110	95/110	95/62.5
	Operating / Storage Temperature	-10~55°C/-20~45°C			
	Communication	CAN/RS485			
System Data	Reverse Polarity	Yes			
	Cooling Strategy	Natural Convection			
	Dimension [W*H*D](mm)	580X1800X350	580X1800X350	580X1800X350	580X1800X350
	Weight (kg)	≤260	≤216	≤150	≤105
	Humidity	5%~95%			
	Ingress Rating	IP20			
Compliance	Phase	Single - Phase			
	Life Span (year)	10			
	Communication Interface	CAN/RS485/WiFi/LAN/DRM			
	Compliance	EN/IEC 61000-6-1, EN/IEC 61000-6-3/A1/AC, EN/IEC 62109-1, EN/IEC 62109-2, AS/NZS 4777.2			



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
Electrical Characteristics	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
	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		
Electrical Characteristics	Charge voltage(Vdc)	54.8±0.2V		
	Charge mode	0.2C to 54.8V, then 54.8V, charge current to 0.02C(CC/CV)		
	Charge current(A)	40	60	80
	Max. Charge current(A)	60	90	120
	Charge cut-off voltage(Vdc)	54.8±0.2V		
Standard Charge	Contiunous current(A)	60	90	120
	Discharge cut-off voltage(VDC)	37.5		
Environmental	Charge temperature	0°C to 45 °C (32F to 113F)@60±25% Relative Humidity		
	Discharge temperature	-20°C to 60 °C (-4F to 140F)@60±25% Relative Humidity		
	Storage temperature	0°C to 40 °C (32F to 104F)@60±25% Relative Humidity		
	IP class	IP60		
Mechanical	Material system	LiFePO4		
	Case material	Metal		
	Dimensions: H*W*D(mm)	1050*600*600		
	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
Electrical Characteristics	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
	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		
Electrical Characteristics	Charge voltage(Vdc)	54.8±0.2V		
	Charge mode	0.2C to 54.8V, then 54.8V, charge current to 0.02C(CC/CV)		
	Charge current(A)	40	60	80
	Max. Charge current(A)	60	90	120
	Charge cut-off voltage(Vdc)	54.8±0.2V		
Standard Charge	Contiunous current(A)	60	90	120
	Discharge cut-off voltage(VDC)	40		
Environmental	Charge temperature	0°C to 45 °C (32F to 113F)@60±25% Relative Humidity		
	Discharge temperature	-20°C to 60 °C (-4F to 140F)@60±25% Relative Humidity		
	Storage temperature	0°C to 40 °C (32F to 104F)@60±25% Relative Humidity		
	IP class	IP60		
Mechanical	Material system	LiFePO4		
	Case material	Metal		
	Dimensions: H*W*D(mm)	1050*600*600		
	Termial	M8		
	Protocol(Optional)	SMBus/RS485/RS232		
	SOC(Optional)	LED/LCD		



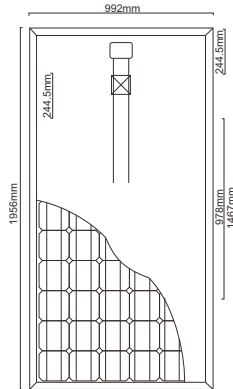
IYSP-250M~300M

Monocrystalline
Solar Module

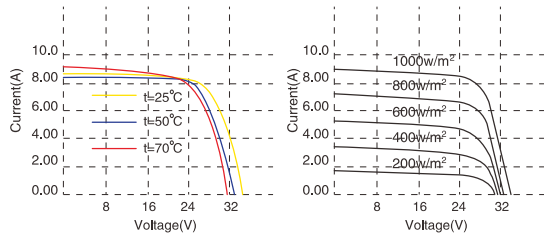
Mechanical Data		
	IYSP-250M	IYSP-300M
Cell type	Mono156.75mm*156.75mm	Mono156.75mm*156.75mm
No.of cells	60 in series(6*10)	72 in series(6*12)
Dimensions	1650*992*35mm	1956*992*35mm

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

Electrical Data		
(STC: Irradiance 1000w/m ² , 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



I-V Cures





Capacity:
800MW/Year



Employees:
100 persons



Customers:
more than 15
countries



Established:
2010 year



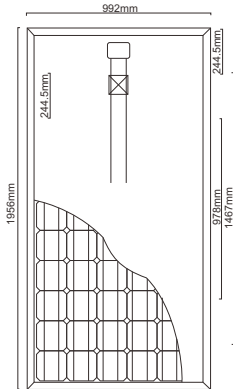
IYSP-320P~335P

Polycrystalline
Solar Module

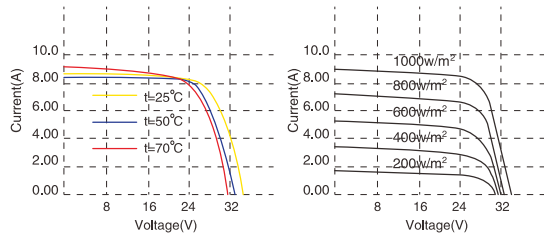
Mechanical Data	
Cell type	Poly 156.75mm*156.75mm
No.of cells	72 in series(6*12)
Dimensions	1956*992*40mm

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

Electrical Data				
(STC: Irradiance 1000w/m ² , module temperate 25°C, AM=1.5)				
Power	320WP	325WP	330WP	335WP
Open circuit voltage(Voc)	44.60V	45.56V	45.83V	46.10V
Max. power voltage(Vmp)	36.60V	36.90V	37.18V	37.45V
Short circuit current(Isc)	9.25A	9.28A	9.35A	9.42A
Max. power voltage(Imp)	8.78A	8.81A	8.88A	8.95A
Power Tolerance	0-5W			
Max. system voltage	1000V			
Operating temp.	-40°C~85°C			
NOCT	47±2°C			
Temp. coefficient Isc	0.06%/°C			
Temp. coefficient Voc	-0.34%/°C			
Temp. coefficient Power	-0.42%/°C			



I-V Cures





Capacity:
800MW/Year



Employees:
100 persons



Customers:
more than 15
countries



Established:
2010 year



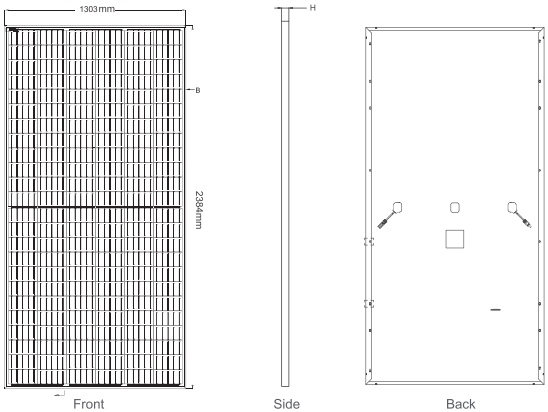
IYSP-HC650M~660M

Monocrystalline
Solar Module

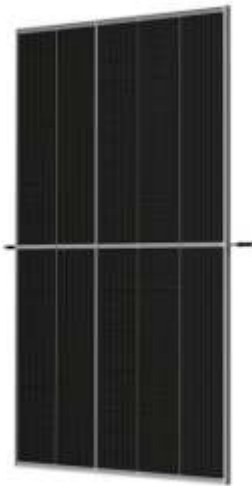
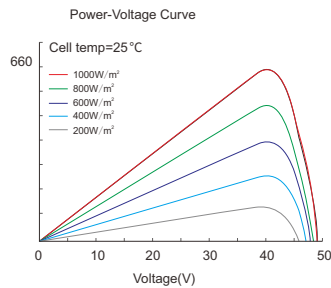
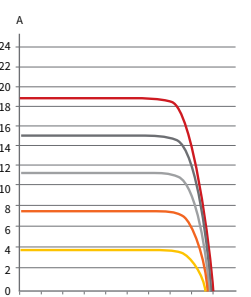
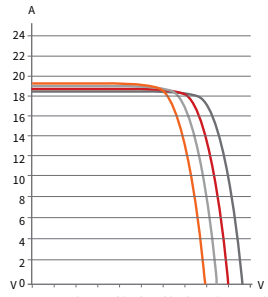
Data	
Cell	Mono PERC 210mm*210mm
Dimensions	2384*1098*35mm
No. of cells	110(5*22)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission
Frame	Anodized Aluminium Alloy
Junction Box	IP67 Rated
Packaging	31pcs per Pallet
Cable	1x4.0mm ² , 30cm Length or Customized Length

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			



Characteristics



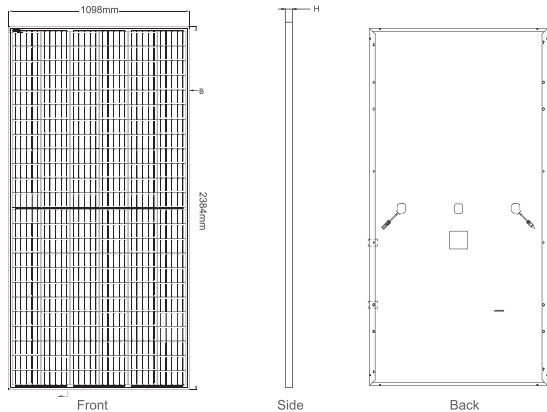
IYSP-210HC540M~550M

Monocrystalline
Solar Module

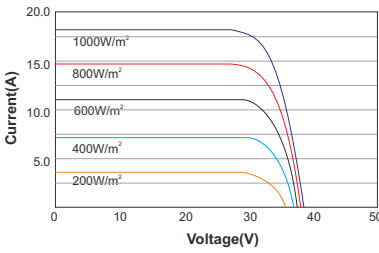
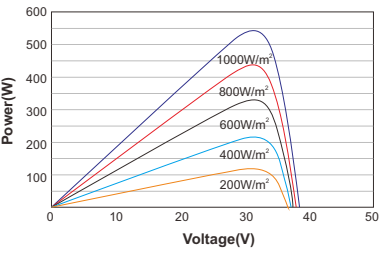
Data	
Cell	Mono PERC 210mm*210mm
Dimensions	2384*1303*35mm
No. of cells	132(6*22)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission
Frame	Anodized Aluminium Alloy
Junction Box	IP67 Rated
Packaging	31pcs per Pallet
Cable	1x4.0mm ² , 30cm Length or Customized Length

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	-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			



Characteristics





IESP

48100 ESS Battery

51.2V100AH, 5.1KWH

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

Technical Requirements

Testing Conditions(unless otherwise specified)

- Temperature:15~35 ℃
- 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℃ after standard charge Capacity after 7days storage at 60 ℃ 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℃ 100% at 25℃ 96% at 60℃
Constant Temperature /humidity	Keep the battery at 40℃ and 90%RH for 96hrs	Recovery capacity ≥ 85%

Mechanical characteristics

ITEM	Testing Instruction	Requirements
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.	
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	

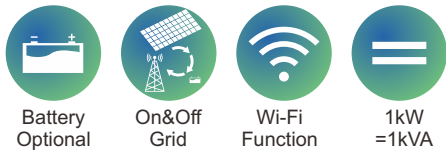
Mechanical characteristics

ITEM	Testing Instruction	Requirements
Short Circuit	After standard charge, the battery located in a fume hood is to be short-circuited by connecting the positive and negative terminals with an external load of less than 50 mΩ 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 battery 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: $t_c=2.5c/3(I_c)$	The battery shall not rupture, smoke, catch fire, vent or leak.
Over Discharge Test	After standard charge, the battery will be connected with external with a maximum resistance load of 0.1Ω for 24hrs until it is completely discharged and the battery case temperature has returned to near ambient temperature.	



IVT-E PLUS

Hybrid Energy Storage Inverter

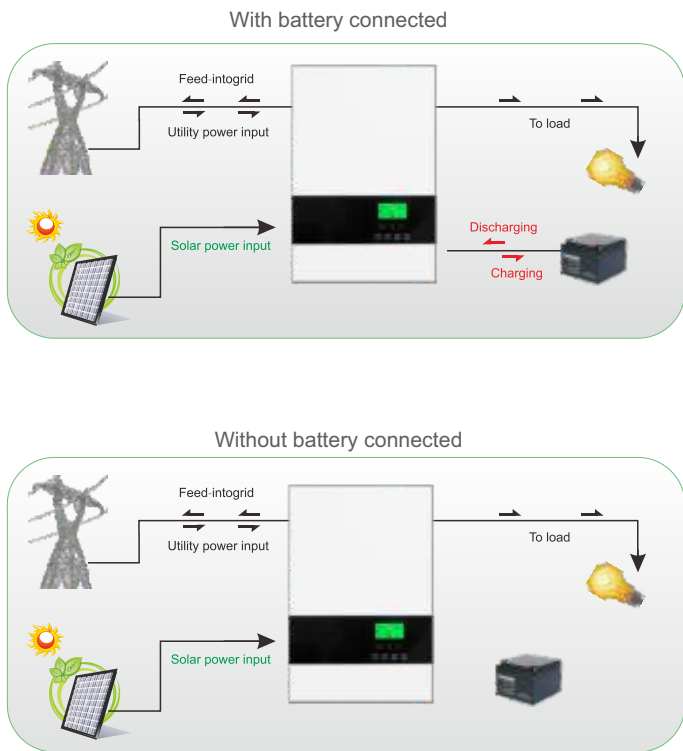


Key Features

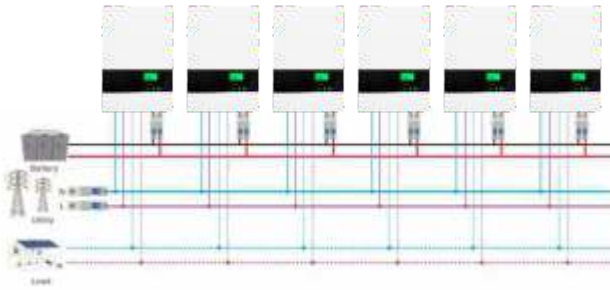
- Hybrid solar inverter(on/off grid inverter)
- Output power factor PF=1.0
- On-grid with energy storage
- Configurable AC/Solar Charger priority via LCD setting
- Smart battery charger design for optimized battery performance
- Compatible to mains voltage or generator power
- Overload, Over temperature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



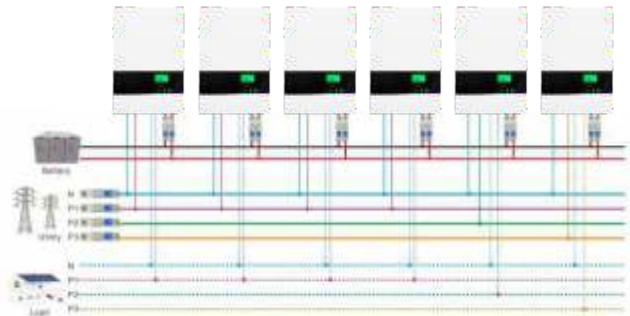
Hybrid Operation



■ 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 OPERATION			
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	
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	48VDC	
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	



IVT-II
Hybrid Energy
Storage Inverter

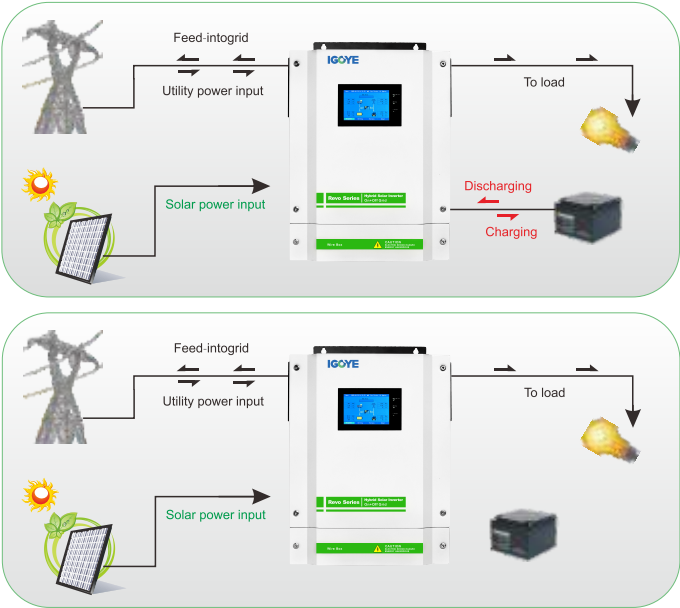
- Battery Optional
- On&Off Grid
- Wi-Fi Function
- 1kW =1kVA
- Touch Screen
- Bluetooth

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.



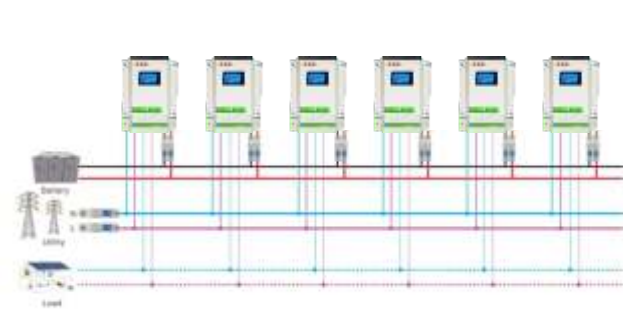
Hybrid Operation



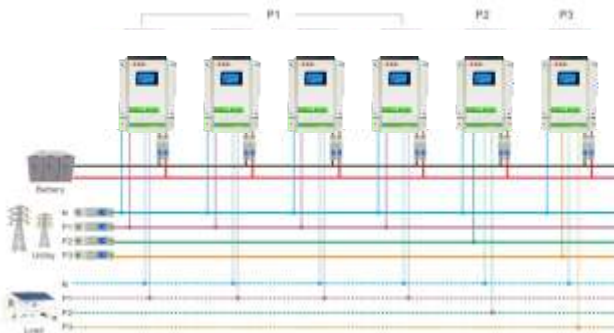
With battery connected

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 OPERATION				
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	48VDC		
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-Contact			
ENVIRONMENT				
Humidity	0~90% RH (No Condensing)			
Operating Temperature	0 to 50℃			
Net Weight(KG)	11.75	11.9		
Rough Weight(KG)	12.75	13.1		
Dimension(W*D*H)mm	345x476x133.2			

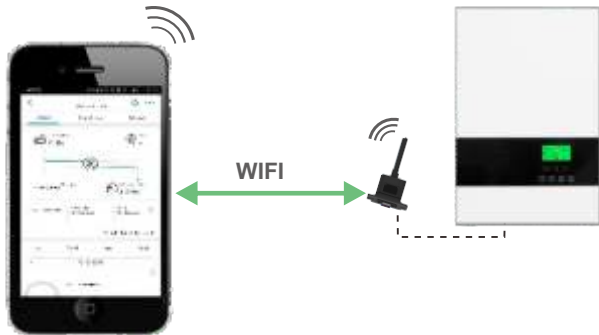


IVT-VM II
Solar Energy
Storage Inverter



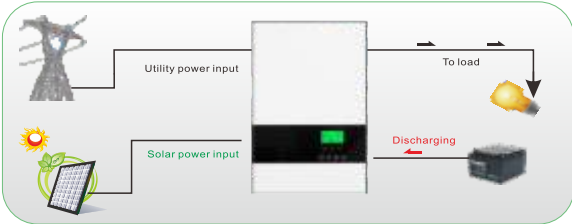
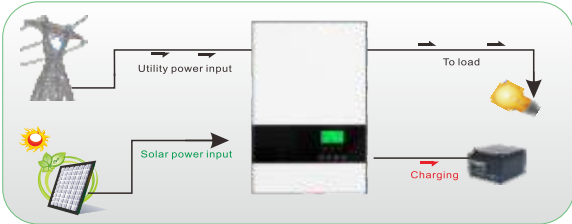
Key Features

- 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 BMS
- Battery independency
- User-friendly LCD operation
- Replaceable fan design

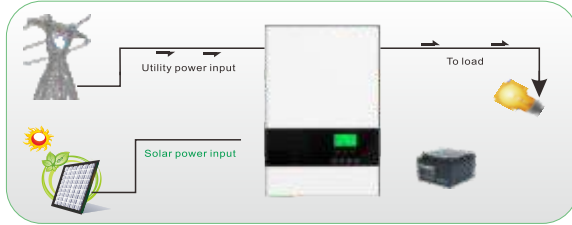
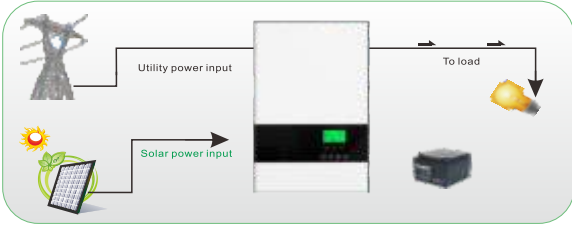


Hybrid Operation

With battery connected

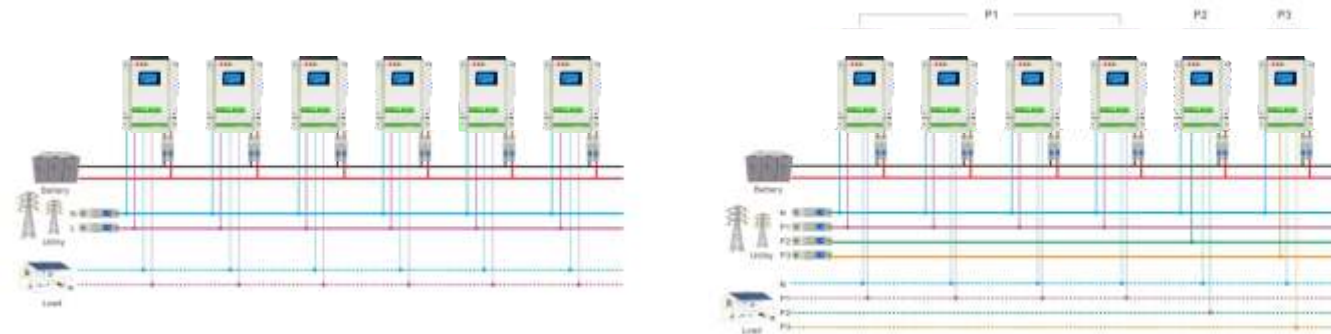


Without battery connected



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 VM II 3k-24	IVT VM II 5.5k-48
Rated Power	3000VA/3000W	5500VA/3000W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC(For Personal Computers);90-280 VAC(For Home Appliances)	
Frequency Range	50 Hz/60 Hz(Auto sensing)	
OUTPUT		
AC Voltage Regulation(Batt.Mode)	230VAC ± 5%	
Surge Power	6000VA	11000VA
Efficiency(Peak)	up to 93.5%	
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 VDC	
Maximum PV Array Power	5500 W	
MPPT Range @ Operating Voltage	120~450 VDC	
Maximum Solar Charge Current	100A	
Maximum AC Charge Current	80A	
Maximum Charge Current	100A	
PHYSICAL		
Dimension, D X W X H(mm)	100 X 300 X 440	
Net Weight(kgs)	9	10
Communication Interface	USB/RS232	
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(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.



1.5-2.4KW

IVT-VM II PRO

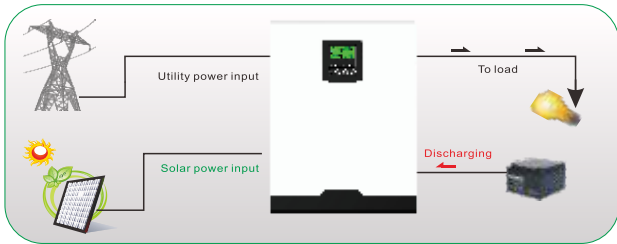
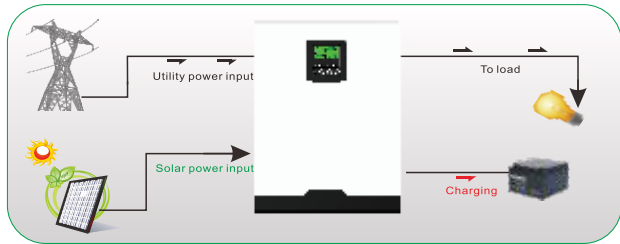
Off Grid Energy Storage Inverter

Key Features

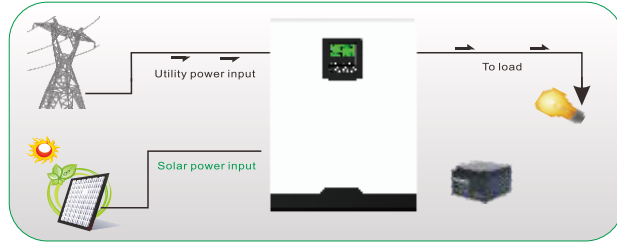
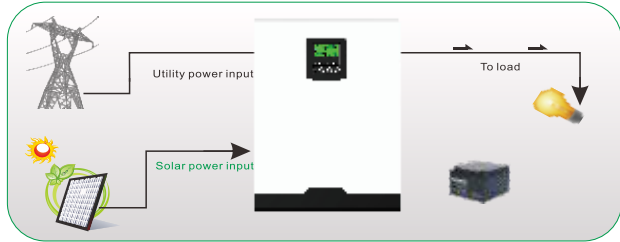
- Pure sine wave solar inverter
- High PV input voltage range(90~450VDC)
- Built-in 80A MPPT solar charger
- Built-in anti-dusk kit for harsh environment(optional)
- Compatibe with lithium-ion battery
- Smart battery charge design to optimize battery life
- Can meet the rich custom needs of customers
- 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 Computers);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	90~430 VDC	
Maximum Solar Charge Current	100A	
Maximum AC Charge Current	80A	
Maximum Charge Current	60A	
Maximum Efficiency	98%	
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)	230VAC±5%	
Surge Power	3000VA	4800VA
Efficiency(Peak) BAT to INV	94%	
Efficiency(Peak) PV to INV	97%	
Transfer Time	10 ms(For Personal Computers); 20 ms(For Home Appliances)	
Waveform	Pure sine wave	
PHYSICAL		
Dimension, D X W X H(mm)	9	10
Net Weight(kgs)	USB/RS232	
Communication Interface	RS232(Standard)GPRS/WIFI(Optional)	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(No-condensing)	
Operating Temperature	0°C to 55°C	
Storage Temperature	-15°C to 60°C	

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



3.5-5.5KW

IVT-VM II PRO

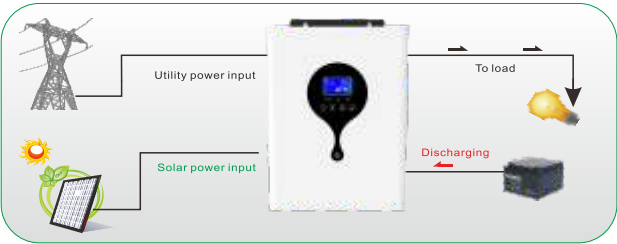
Solar Energy Storage Inverter

Key Features

- Pure sine wave solar inverter
- High PV input voltage range
- Built-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 Computers);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	120~450 VDC	
Maximum PV Array Open Circuit Voltage	500 VDC	
Maximum Solar Charge Current	100A	
Maximum AC Charge Current	60A	
Maximum Charge Current	100A	
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)	230VAC±5%	
Surge Power	7000VA	11000VA
Efficiency(Peak)	Up to 93.5%	
Transfer Time	10 ms(For Personal Computers); 20 ms(For Home Appliances)	
Waveform	Pure sine wave	
PHYSICAL		
Dimension, D X W X H(mm)	400 X 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 to 60°C	

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



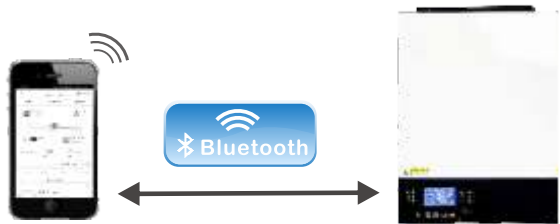
IVT-VM III

Solar Energy Storage Inverter



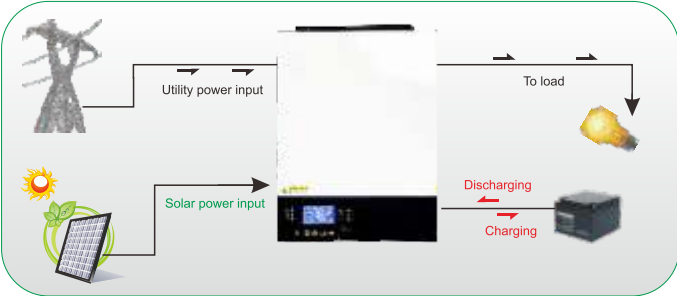
Key Features

- 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 BMS
- Battery independency
- User-friendly LCD operation
- Replaceable fan design

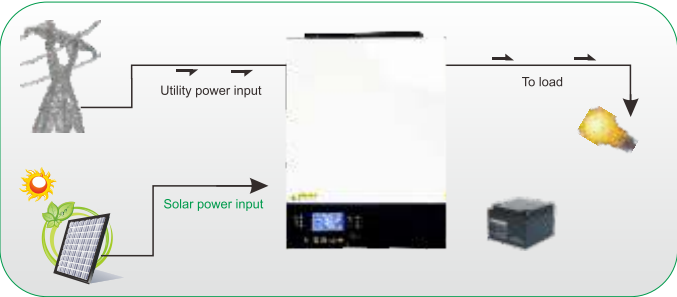


Hybrid Operation

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

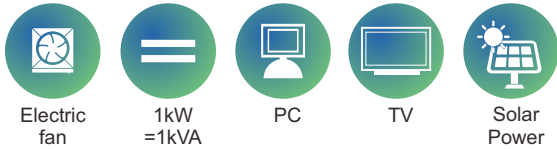
Model	IVT VM III 3k-24	IVT VM III 5k-48
Rated Power	3000VA/3000W	5000VA/5000W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC(For Personal Computers);90-280 VAC(For Home Appliances)	
Frequency Range	50 Hz/60 Hz(Auto sensing)	
SOLAR CHARGER & AC CHARGER		
Solar Charger type	MPPT	
Maximum PV Array Power	4000W	5000W
MPPT Range @ Operating Voltage	120~450 VDC	
Maximum PV Array Open Circuit Voltage	500 VDC	
Maximum Solar Charge Current	80A	
Maximum AC Charge Current	60A	
Maximum Charge Current	80A	
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)	230VAC±5%	
Surge Power	6000VA	10000VA
Efficiency(Peak)	Up to 93.5%	
Transfer Time	10 ms(For Personal Computers); 20 ms(For Home Appliances)	
Waveform	Pure sine wave	
PHYSICAL		
Dimension, D X W X H(mm)	100 X 300 X 440	
Net Weight(kgs)	9	10
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 to 60°C	

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



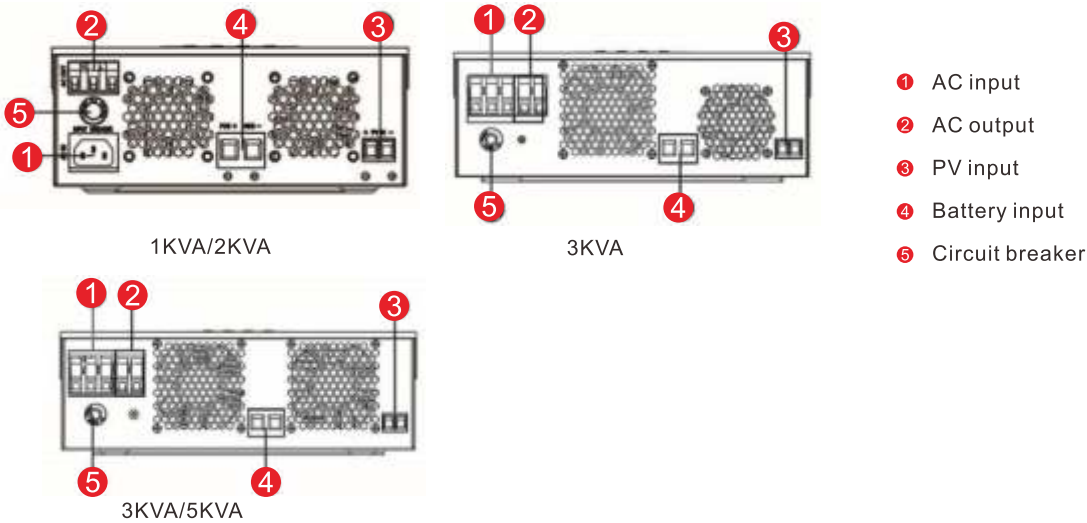
IVT-VP/VM

Solar Energy Storage Inverter



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 via 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



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

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 /1000W	1200VA /1200W	2000VA /2000W	2200VA /2200W	3000VA /3000W	3200VA /3200W	5000VA/5000W	
INPUT								
Voltage	230 VAC							
Selectable Voltage Range	170-280 VAC(For Personal Computers);90-280 VAC(For Home Appliances)							
Frequency Range	50 Hz/60 Hz(Auto sensing)							
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 VDC		24 VDC				48 VDC	
Floating Charge Voltage	13.5VDC		27 VDC				54 VDC	
Overcharge Protection	16 VDC		31VDC		33VDC		63 VDC	
OUTPUT								
AC Voltage Regulation(Batt. Mode)	230 VAC ± 5%							
Surge Power	2000VA		4000VA		6000VA		10000VA	
Efficiency(Peak)	90%~93%							
Transfer Time	10 ms (For Personal Computers); 20 ms (For Home Appliances)							
Waveform	Pu							
PHYSICAL								
Dimension, D X W X H(mm)	88x225 x320	103x225 x320	88x225 x320	103x245 x330	100x285 x334	118.3x285 x360.4	100x300 x440	100x302 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.



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

Table with 2 columns: Data, and specifications for Recommended MPPT voltage range, Recommended input voltage, Motor type, Input power, Maximum DC power input, Rated output voltage, Output frequency range, MPPT efficiency, Ambient temperature range, Solar pump control special performance, Protection function, Protection degree, Running mode, Altitude, and Standard.

Table with 8 columns: SN, Model No., Rate current, Output voltage (3PH AC), Applicable for pumps, External of frive size(mm), MPPT voltage (VDC), and Weight (kg). It includes sections for Economic type 2S series, Economic type 4T series, General type 2S series, and General type 4T series.



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
Product category	Controller Type		MPPT(maximum power point tracking)				
	MPPT efficiency		≥99. 5%				
	Standby power		0.5W~1.2W				
	System voltage		Automatic recognition				
	Heat-dissipating method		Intelligent fan cooling				
Input Characteristics	Max.PV input voltage(VOC)		DC150V				
	Start the charge voltage point		Battery voltage + 3V				
	Low input voltage protection point		Battery voltage + 2V				
	Over voltage protection point		DC150V				
	Rated PV Power	12V system	260W	390W	520W	650W	780W
		24V system	520W	780W	1040W	1300W	1560W
		36V system	780W	1170W	1560W	1950W	2340W
48V system		1040W	1560W	2080W	2600W	3120W	
Charge Characteristics	Selectable Battery Types(Default Gel Battery)		Sealed lead acid, Gel battery, Flooded (Other types of the batteries also can be defined)				
	Charge rated current		20A	30A	40A	50A	60A
	Charge Method		3-Stage:constant current (fase charging)-constant voltage-floating charge				
LOAD Characteristics	Load voltage		The same as the battery voltage				
	Load rated current		40A			60A	
	Load control mode		On/Off mode, PV voltage control mode, Dual-time control mode, PV+Time control mode				
Display& Communication	Display mode		High-definition LCD segment code backlight display				
	Communication mode		8-pin RJ45 port/RS485/support PC software monitoring/support WIFI module to realize APP cloud monitoring				
Other Parameters	Protect function		Input - otuput over/under voltage protection, Prevention of connection reverse protection, battery shedding protection etc.				
	Operation Temperature		-20°C~ +50°C				
	Storage Temperature		-40°C~ +75°C				
	IP(Ingress protection)		IP21				
	Max. connection size		20mm²			30mm²	
	Net Weight(kg)		2.3			2.6	
	Gross Weight(kg)		3			3. 5	
	Product Size(mm)		240*168*66			270*180*85	
	Packing Size(mm)		289*204*101			324*223*135	



IYPV/1-1 DC
Combiner Box

Overview

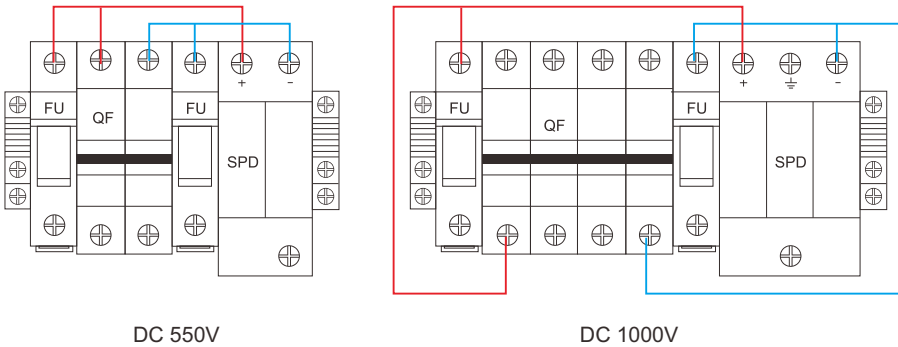
High reliability
With DC FUSE
With DC Surge Protection Device
With DC Circuit breaker or DC load isolation switch.

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 modified.

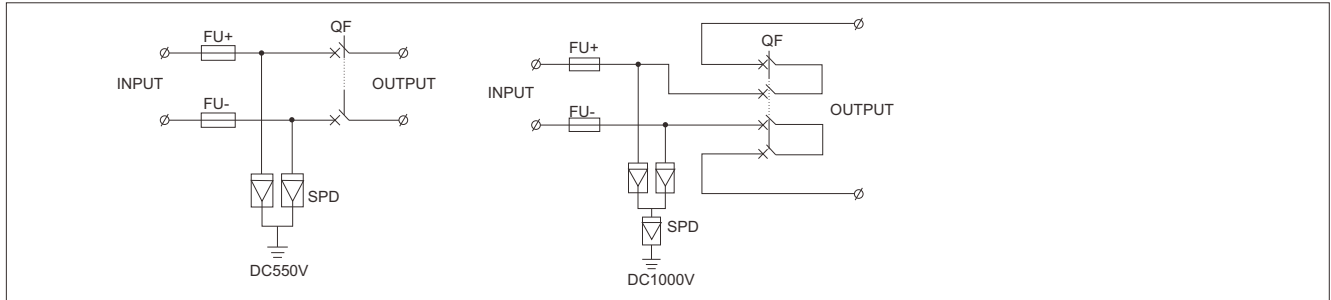
Description

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.



Data		
Electric parameter		
System maximum dc voltage	550	1000
Maximum input current for each string	15A	
Maximum input strings	1	
Maximum output switch current	16A/20A	
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	2.5kV	3.8kV
Maximum continuous operating voltage Uc	630V	1050V
Poles	2P	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)	300 x 260 x140	

Schematic diagram





IYPV/2-1 DC
Combiner Box

Overview

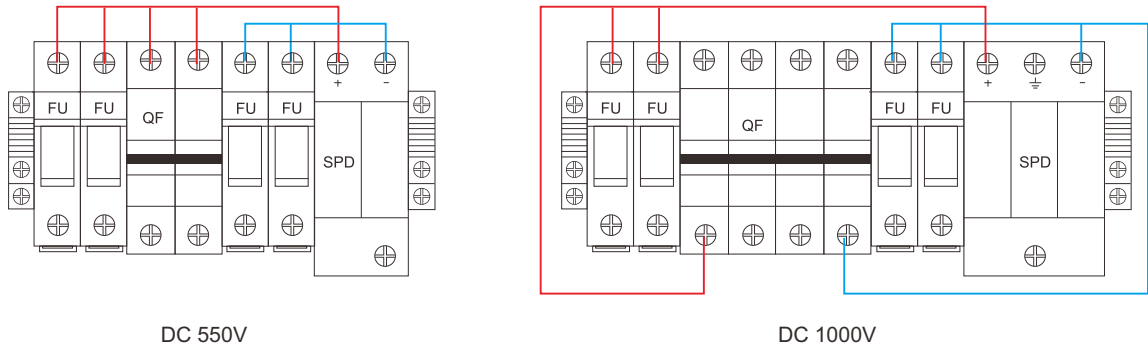
High reliability
With DC FUSE
With DC Surge Protection Device
With DC Circuit breaker or DC load isolation switch.

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 modified.

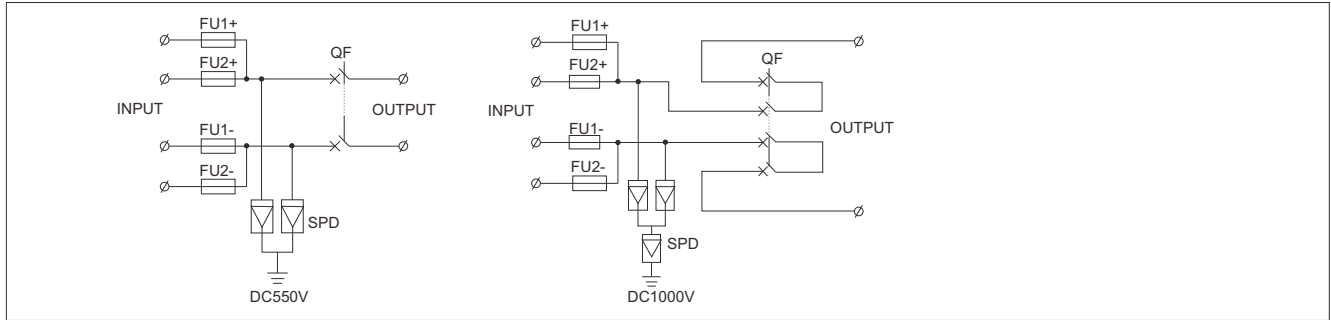
Description

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.



Data		
Electric parameter		
System maximum dc voltage	550	1000
Maximum input current for each string	15A	
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	20kA	
Maximum discharge current	40kA	
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	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)	300 x 260 x140	

Schematic diagram





IYPV/4-1 DC
Combiner Box

Overview

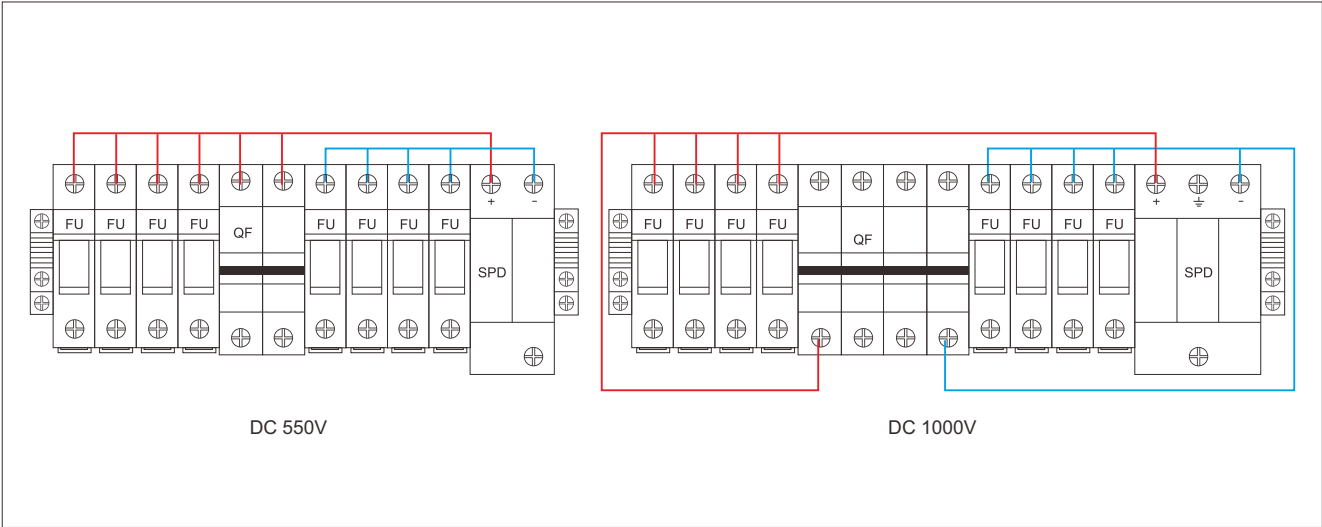
High reliability
With DC FUSE
With DC Surge Protection Device
With DC Circuit breaker or DC load isolation switch.

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 modified.

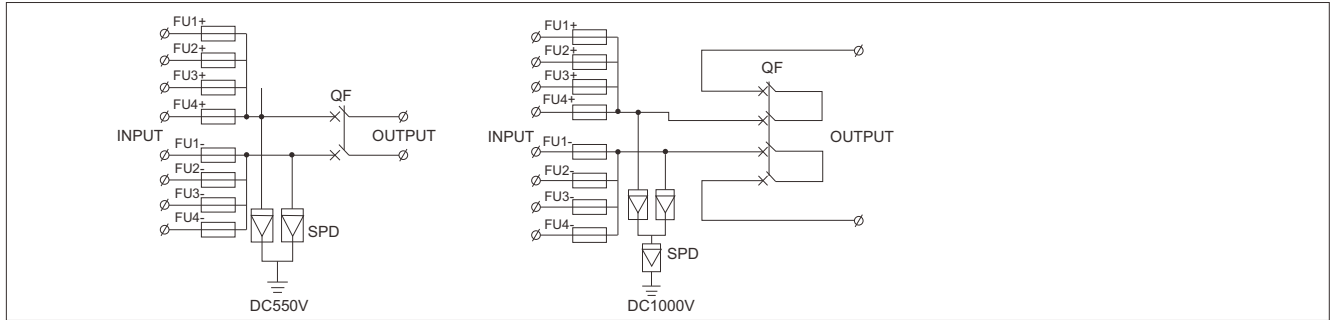
Description

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.



Data		
Electric parameter		
System maximum dc voltage	550	1000
Maximum input current for each string	15A	
Maximum input strings	4	
Maximum output switch current	50A/63A	
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	2.8kV	3.8kV
Maximum continuous operating voltage Uc	630V	1050V
Poles	2P	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)	410 x 285 x140	

Schematic diagram





IYPV/6-1 DC
Combiner Box

Overview

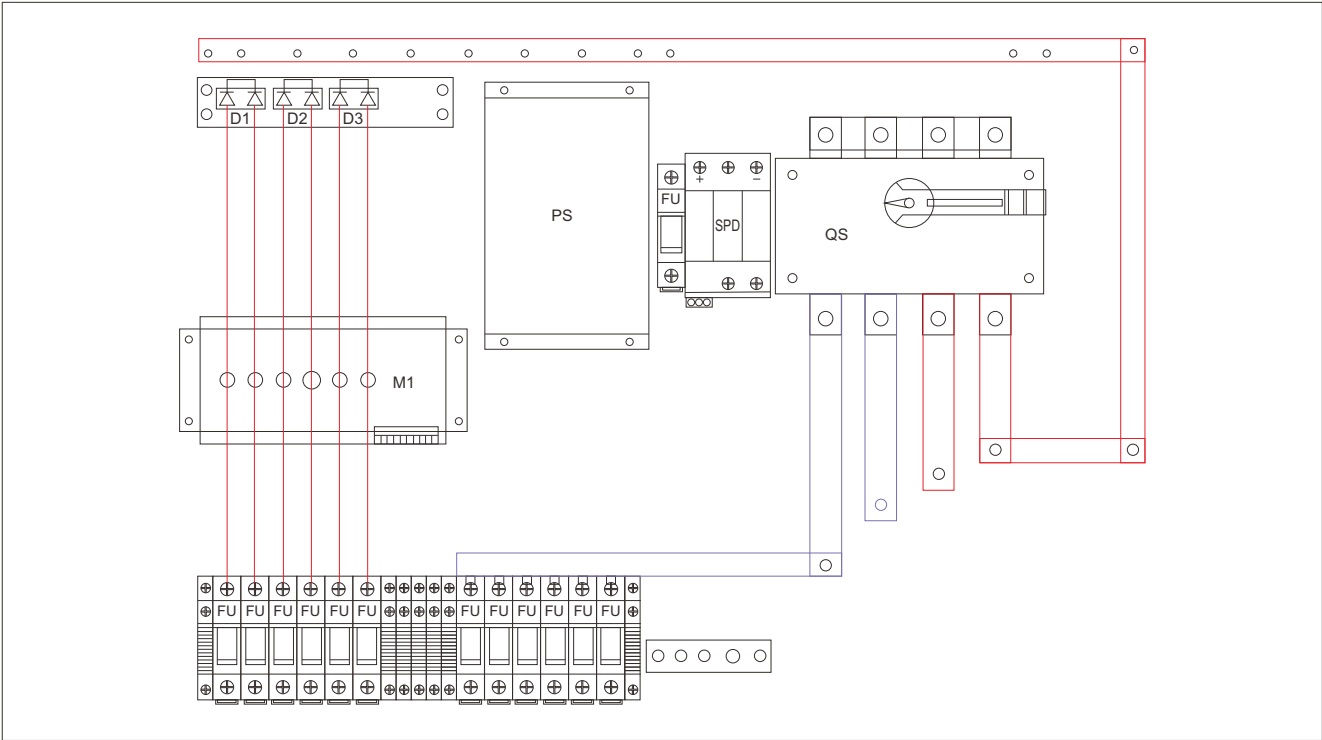
High reliability
With DC FUSE
With DC Surge Protection Device
With DC Circuit breaker or DC load isolation switch.

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 modified.

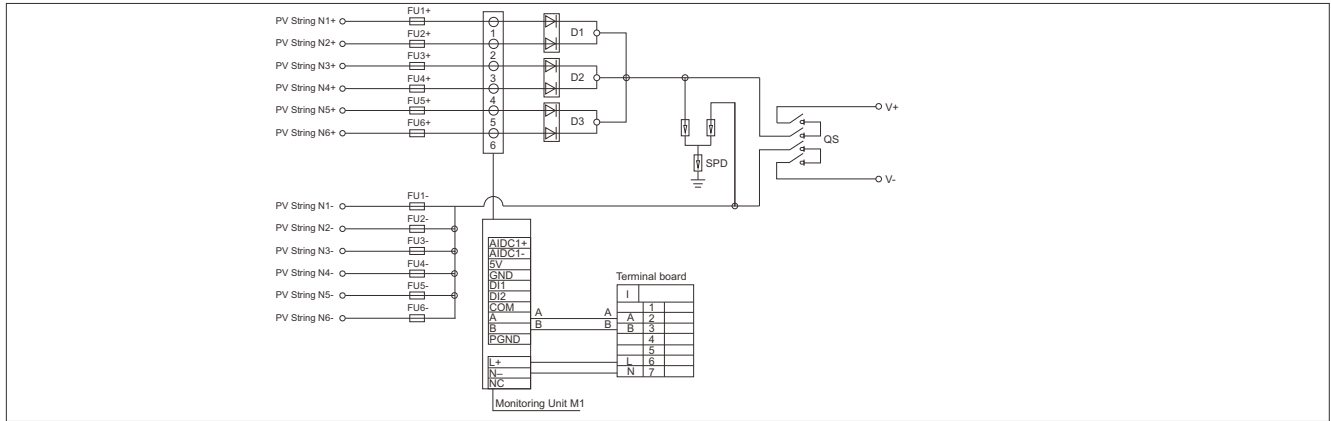
Description

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.
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	6
Maximum output switch current	80A/90A
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)	440 x 400 x180

Schematic diagram





IYPV/8-1 DC
Combiner Box

Overview

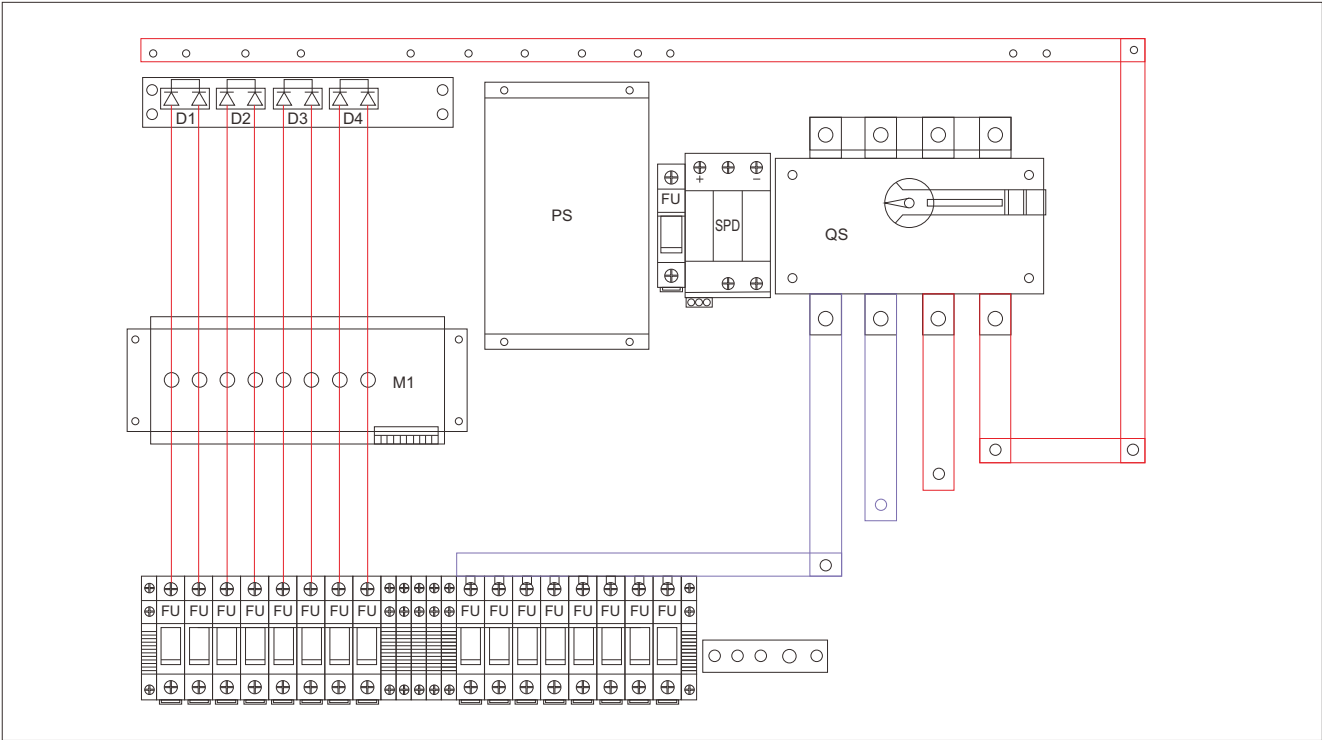
High reliability
With DC FUSE
With DC Surge Protection Device
With DC Circuit breaker or DC load isolation switch.

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 modified.

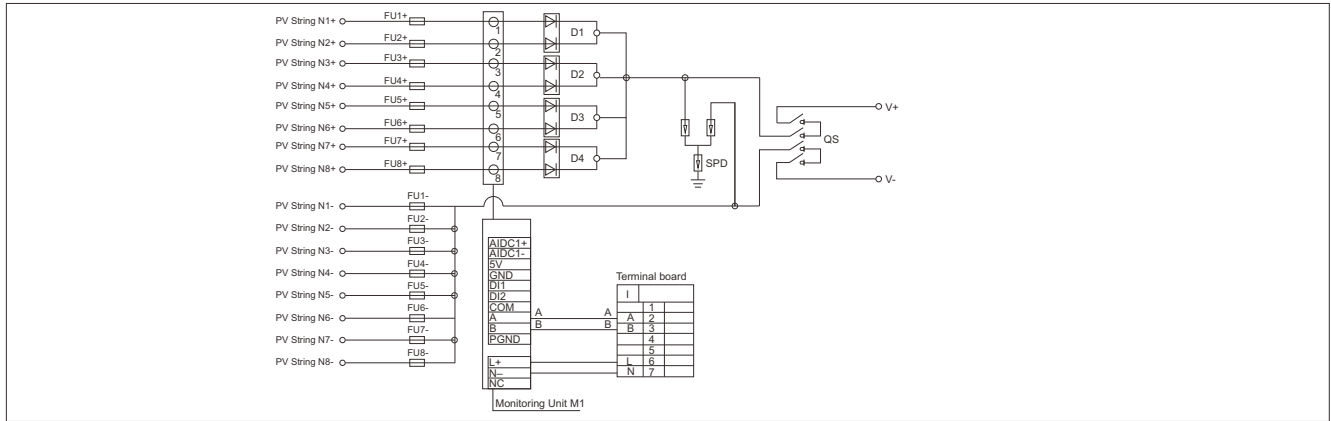
Description

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.
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 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 modified.

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. 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.

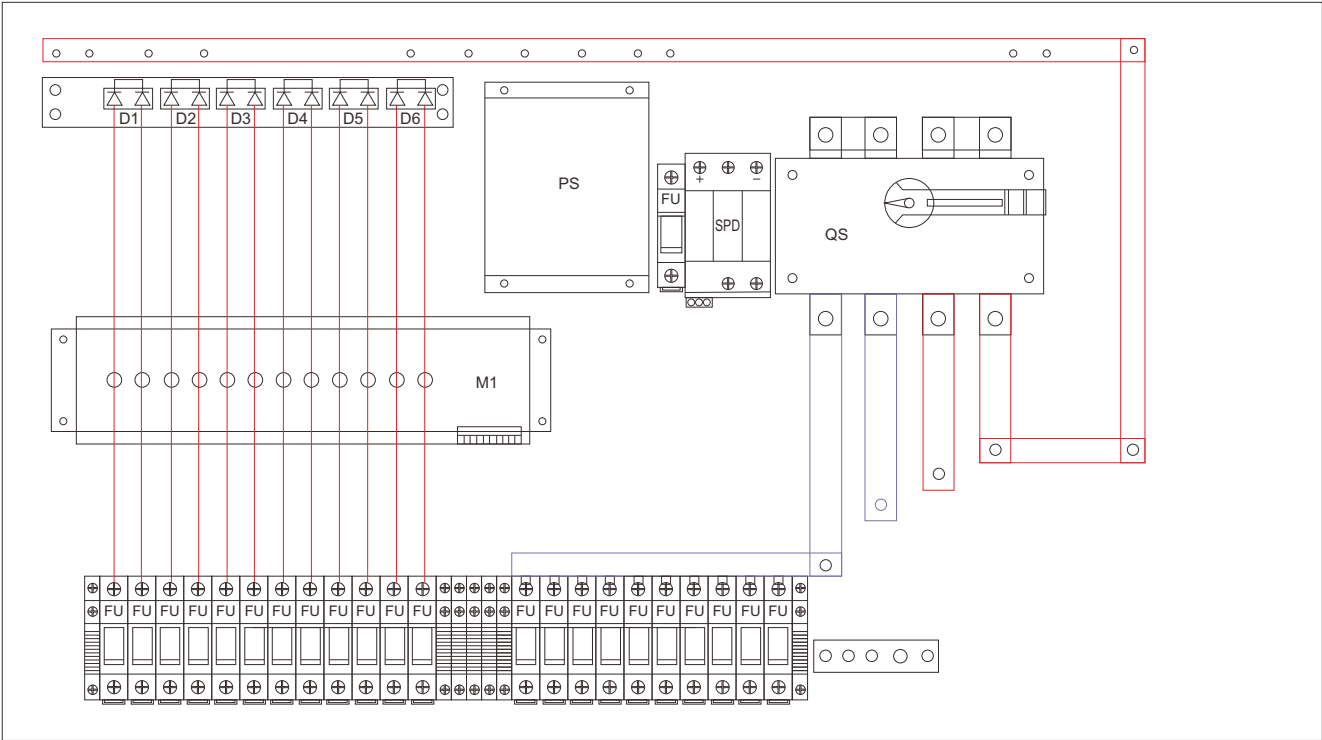
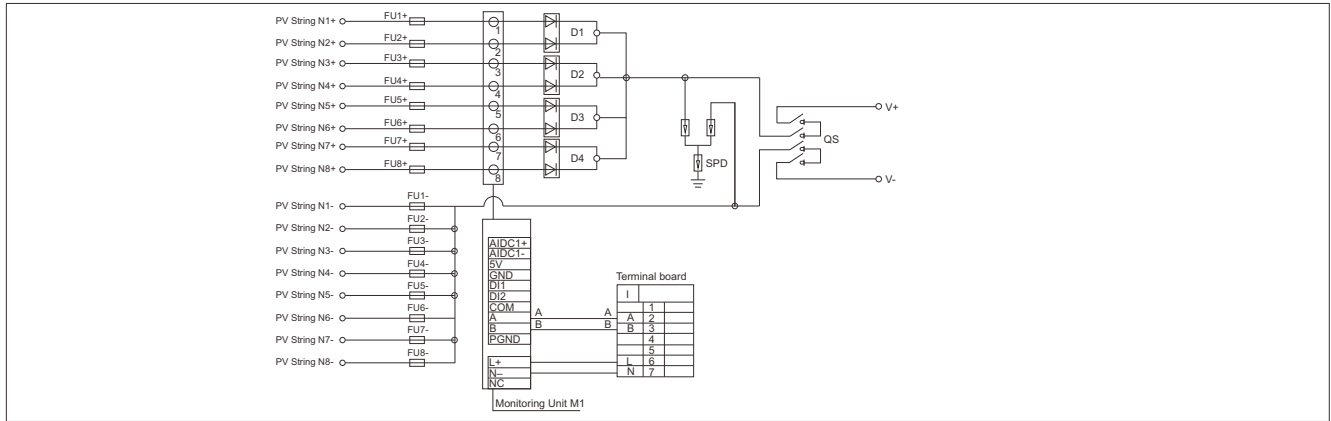


Table with 2 columns: Parameter and Value. Rows include Electric parameter (System maximum dc voltage, Maximum input current, etc.), Lightning protection (Category of test, Nominal discharge current, etc.), System (Protection grade, Output switch, etc.), and Mechanical parameter (Width x High x Depth).

Schematic diagram





IYPV/16-1 DC
Combiner Box

Overview

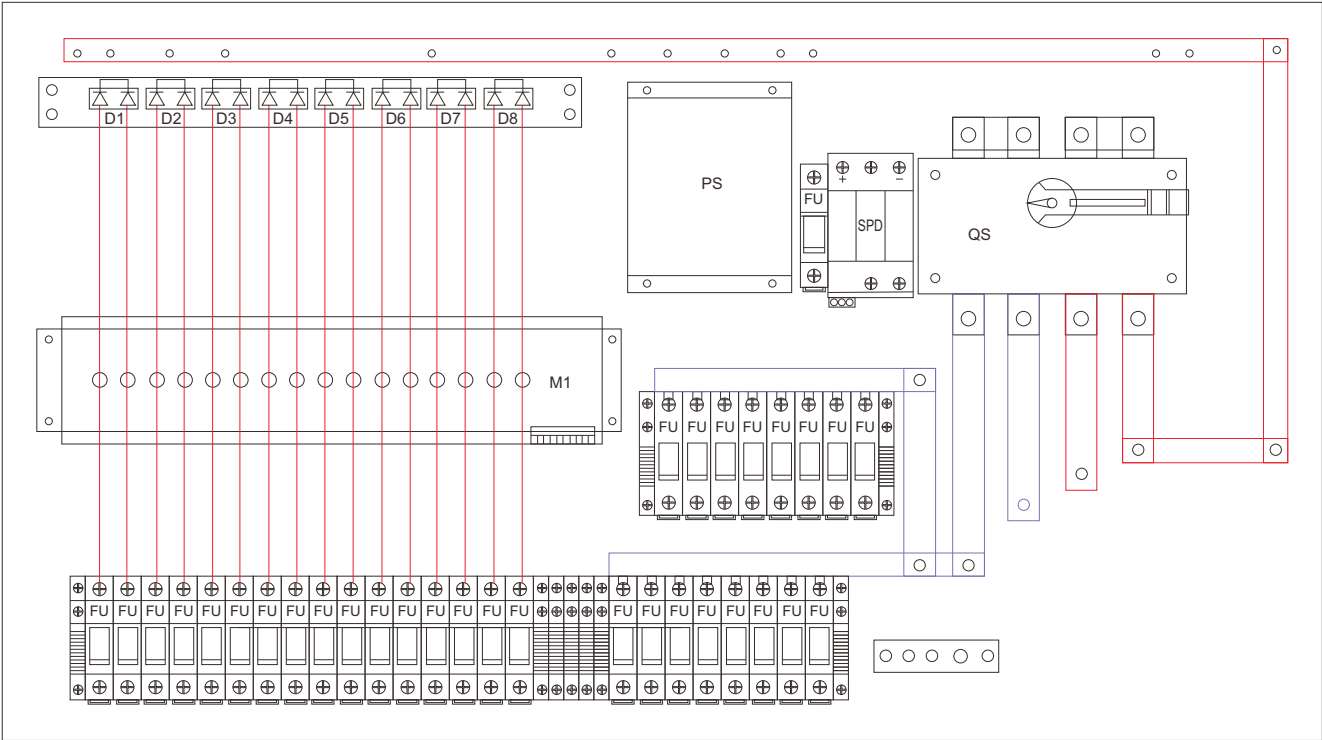
High reliability
With DC FUSE
With DC Surge Protection Device
With DC Circuit breaker or DC load isolation switch.

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 modified.

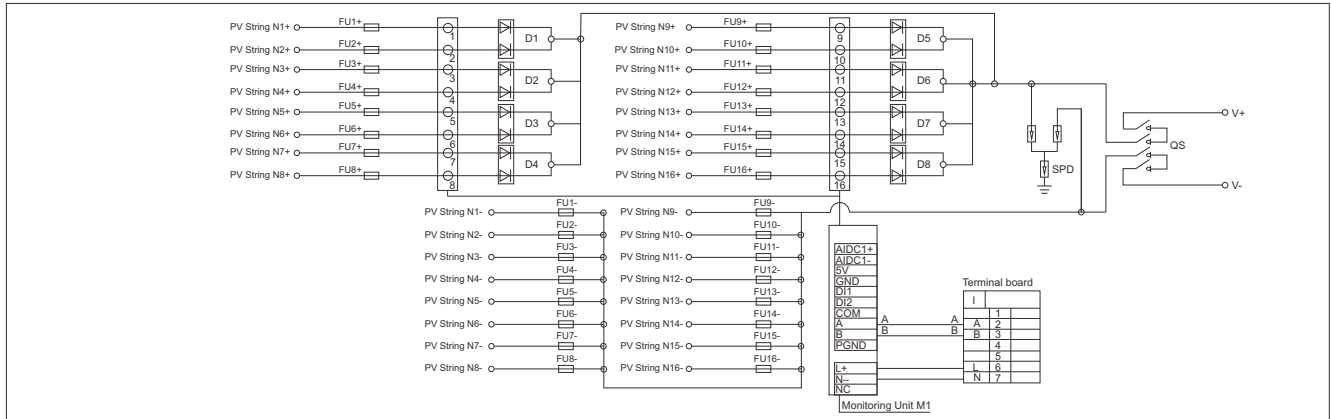
Description

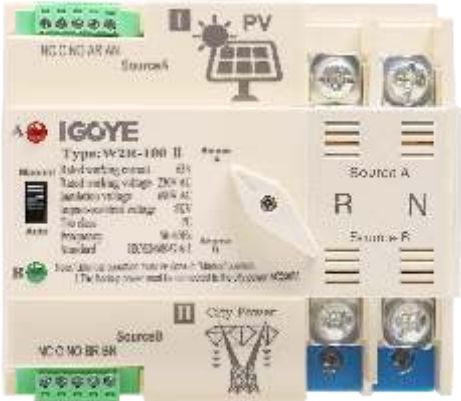
IYPV/16-1 PV combiner box bus synthetic DC input of 16 PV components to 1 output. Each channel is with a fuse. Output side is equipped with lightning protection and circuit breaker. It greatly simplify input wiring of DC power distribution cabinet and inverter. Realize lightning protection, short circuit 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.



Data	
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
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





W2R
Automatic Transfer Switch

Overview

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 specicilly 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 andtransfer switch equipme.

Table with 4 columns: Data, Rated current Ie A, Insulation voltage Ui, Rated voltage Ue, Grade, Use category, Pole, Weight(kg), Life, Rated conditional short-circuit current Iq, SCPD(fuse), Rated impulse withstand voltage, Control circuit, Auxiliary circuit, Contact transfer time, Operating transfer time, Return transfer time, Off-time, Temperature range.

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°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 °C , relative humidity is 90% . Due to temperature changes , occasionally measures should be taken to prevent condensation on the surface of the product.

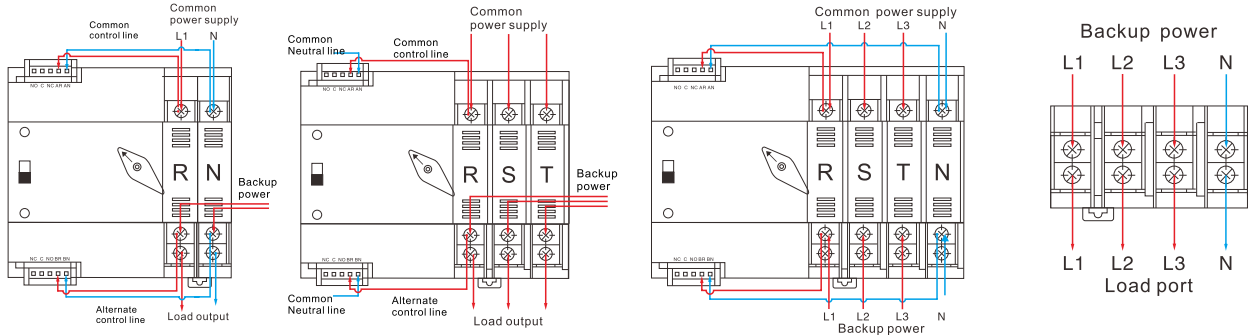
Pollution degree The pollution degree of TSE complies with the level 3 specified by IEC . The installation category of 60947-6-1 and IEC 60947-34.5 installation category TSE conforms to the category specified by IEC60947-6-14.6 . Installation conditions can be installed vertically in a control cabinet 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.



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.It 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

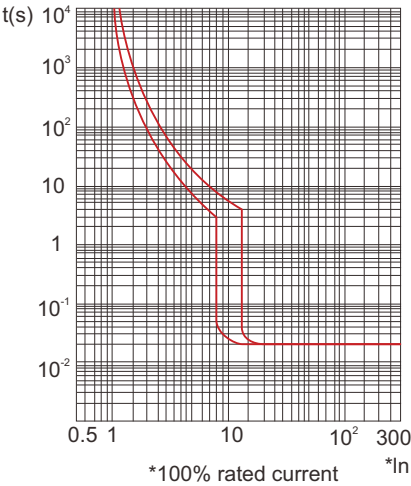
- According to the protection form:
- 1.Line protection
 - 2.Line isolation

- According to the wiring form:
- 1.Front-board wiring
 - 2.Rear-panel wiring
 - 3.Plug-in wiring

Model	IYM3DC-250HU			IYM3DC-320HU			IYM3DC-400HU		
Rated current of shell frame grade Inm(A)	250			320			400		
Rated current In(A)	125,140,160,180,200,225,250			280,315,320			200,225,280,300,315,350,400		
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 Ics(kA)	20								
Wiring mode	Up incoming and down outcoming								
Mechanical life(Total times)	10000								
Electrical life(Total times)	5000								
Insolation feature	yes								
Standard	IEC 60947-2 GB/T 14048.2								
Allowable ambient temperature	-40℃ ...70℃								
Levels of protection	IP20								
Quality certificate	CCC CB TUV certificate								
With accessories	Auxiliary, alarm, off load, hand operation, electric operation								
Arcing distance(mm)	≤50(Zero arc, with arcing cover)								
Transient Action value	10In								
Overall dimensions L*W*H(mm)	180*76(2P)/107(3P)*105			180*76(2P)/107(3P)*105			258*198*107		
Installation way	fixed type, plug-in type								

Action characteristic curve of the circuit breaker

IYM3DC-(HU)Action characteristic curve





IYRD9L-125

Photovoltaic special reclosing miniature circuit breaker

Automatic Reclosing Miniature Circuit Breaker for Photovoltaic System

Product overview

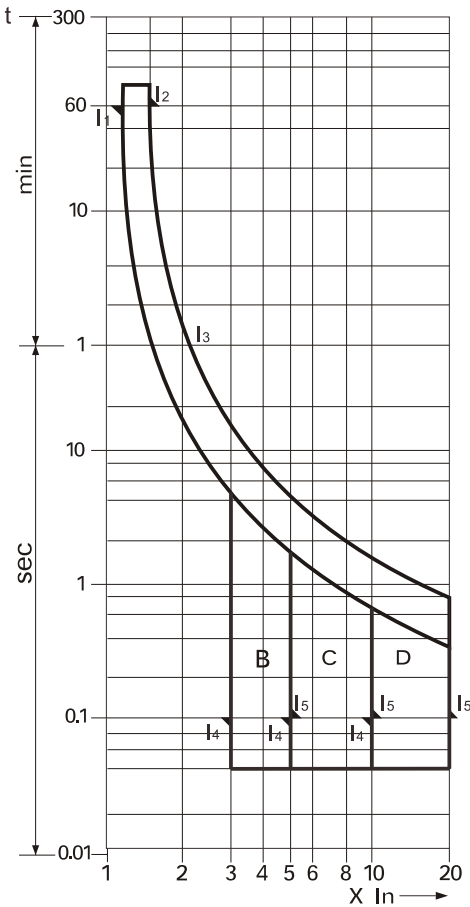
IYRD9L-125 series photovoltaic special reclosing miniature circuit breaker (hereinafter referredto as the circuit breaker), suitable for the line of AC 50HZ, rated workingvoltage to 400V, ratedcurrent to 125A with overvoltage,undervoltage, voltage loss, overload shortcircuit protection function. At present, broadly used in photovoltaic distributiobox. Accord with GB10963.1 IEC80198.1

Electrical Characteristics

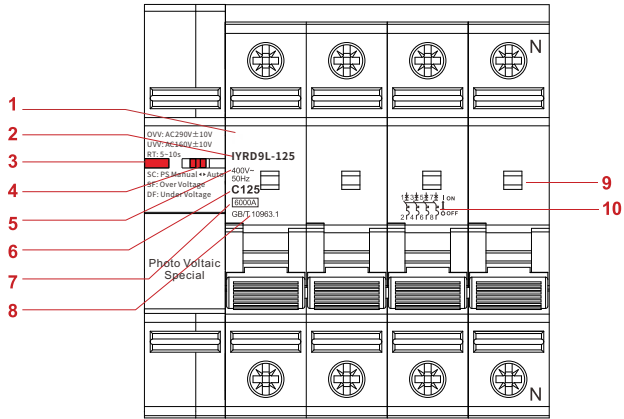
Data	
Behaviour of electricity	
Number of poles	2P、4P
Function	overvoltage,undervoltage,voltage loss,overload short circuit protection
Shell rating rating Inm	125A
Rated operating voltage: Ue	400V
Rated current In	32、40、50、63、80、100、125A
The type of deduction at the time of the case	C
Rated short-circuit breaking capacity	Ics=Icn=6000A
Mechanical life	10000 Times
Electricity life	4000 Times
Overcurrent trip characteristics	See also in Table 1 and Figure 1
Protection function	
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	300V
Loss of voltage protection function	Yes
Reset delay	20s-40s
Power consumption	0.5W
Normal working conditions and installation	
Levels of protection	IP20
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 areaof copper wire	See, 2
Installation environment	No significant) medium strike and vibration place
Install the category	III
installation	DIN standard guide rail

Num	Rated current	Start state	Test current	Specified time	Expected result
1	32,40,50,63	Cold State	1.13In	t≤1h	Not Trip
	80,100,125			t≤2h	
2	32,40,50,63	Immediately after the previous test	1.45In	t<1h	Trip
	80,100,125			t<2h	
1	In≤32	Cold State	2.55In	1s<t<60s	Trip
	In>32			1s<t<120s	
4	all model	Cold State	5In	t≤0.1s	Trip
			10In	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



IYM9DC
DC MCB

General

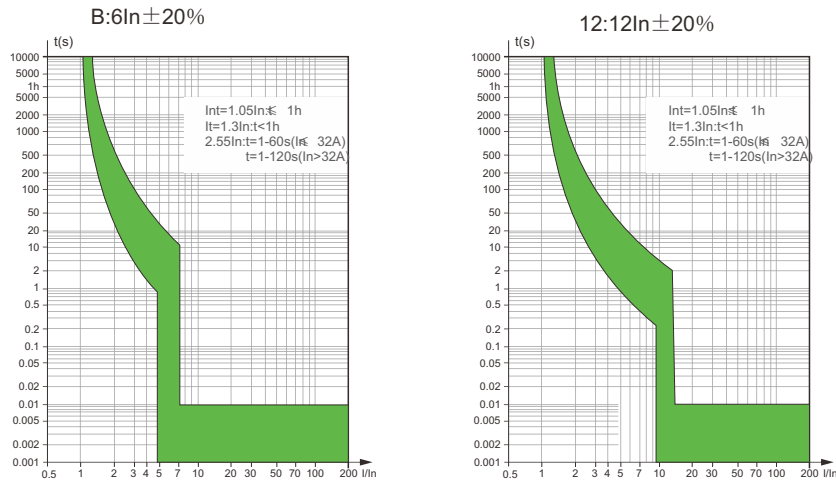
IYM9DC circuit breaker is used for DC rated voltage to 1000V, rated current to 63A line, for overload and short circuit protection, and can also be used as an infrequent operation of the line.Circuit breakers are used in DC applications such as communications and photovoltaic syst.

- In compliance with IEC6094.2

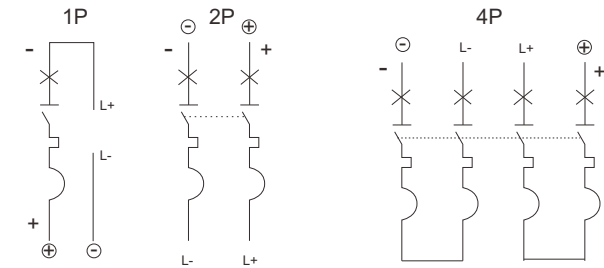
Table with 2 columns: Parameter and Value. Rows include: Data, Rated current In (1-63A), Poles (1P 2P 3P 4P), Rated voltage Ue (1P:250V~ 2P:500V 3P:750V 4P:1000V), Insulation voltage Ui (1000V), Rated breaking capacity Ics=Icu (6000A), Rated impulse withstand voltage(1.2/50) Uimp (6KV), Thermo-magnetic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

Table with 2 columns: Parameter and Value. Rows include: 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).

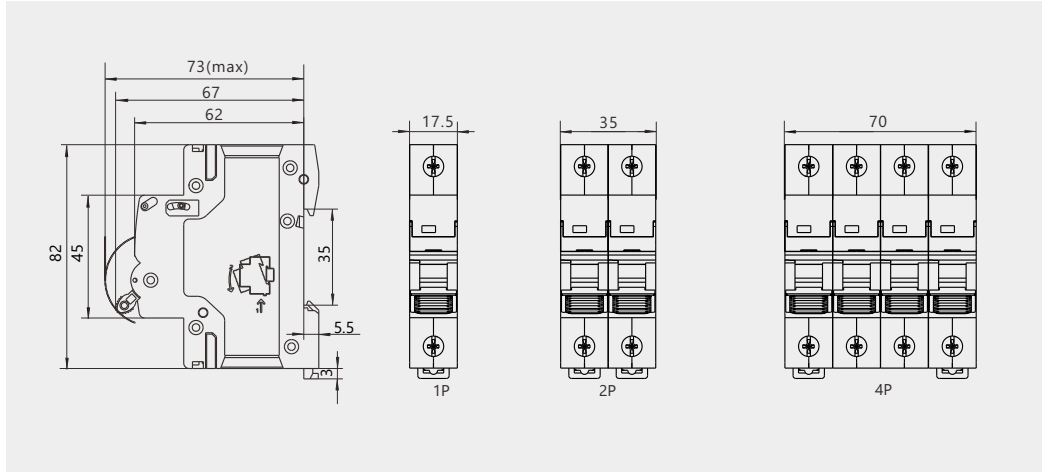
Tripping graph



Wiring diagram of DC ap



Overall and mounting dimensioned chart



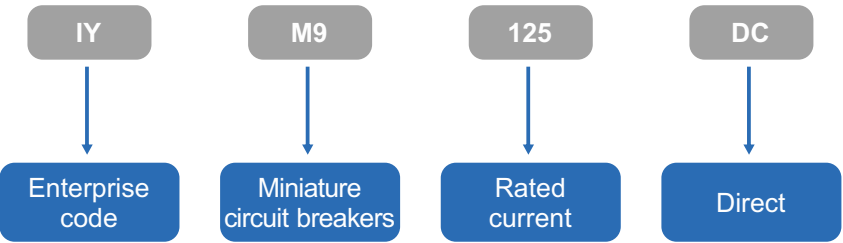


IYM9-125DC

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.

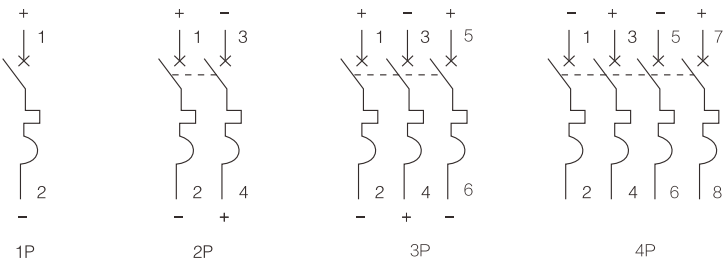
Scope of application

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.

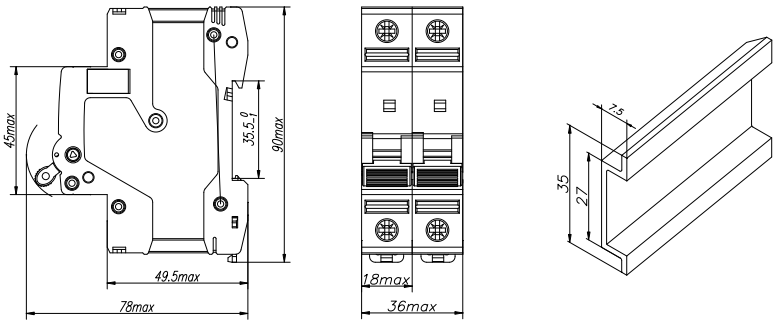
Main specifications and technical parameters						
Frame rating rated current Inm (A)	number of poles	Rated voltage (V)	Rated current In (A)	Rated ultimate short-circuit capacity		Instantaneous tripping current
				Breaking current Icu (A)	Time constant T (ms)	
63	1	DC250V	1,2,3,4,6,10 16,20,25,32 40,50,63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

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

Wiring diagram



Dimensions



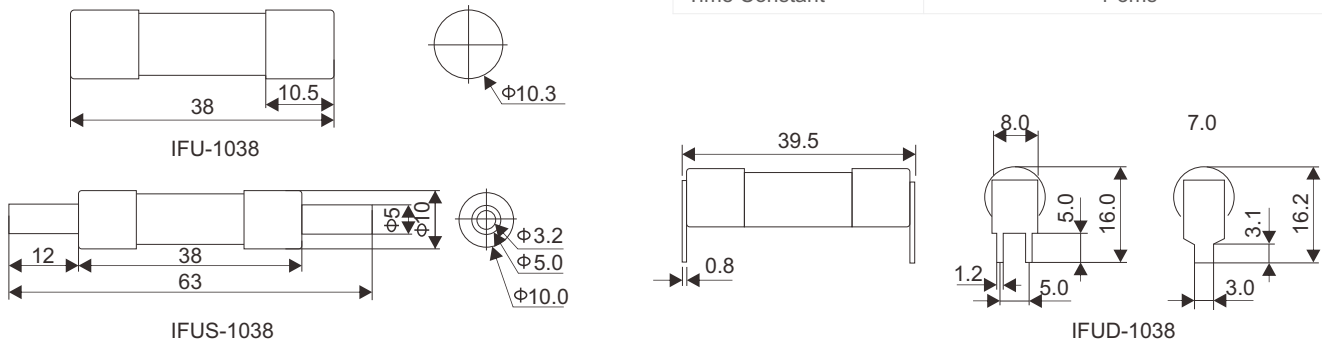


IFU-1038
Solar Fuse

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

Model	Rated current	I ² T(A ² S)	
		Pre-arcing	Total
IFU-1038	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
	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

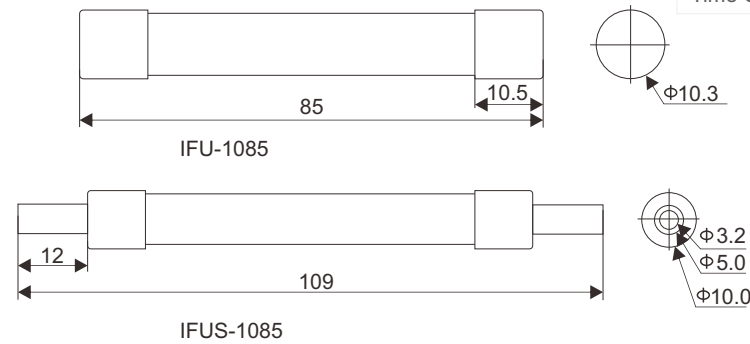


IFU-1085
Solar Fuse

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

Parameter	
Fuse Size	10x85mm 10X109mm
Class of Operation	gPV
Standard	GB/T 13539.6 IEC60269-6
Breaking Capacity	20kA
Time Constant	1-3ms

Dimensions(mm)



Specifications

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

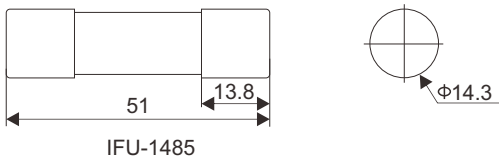


IFU-1485
Solar Fuse

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

Model	Rated current	I²T(A²S)	
		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

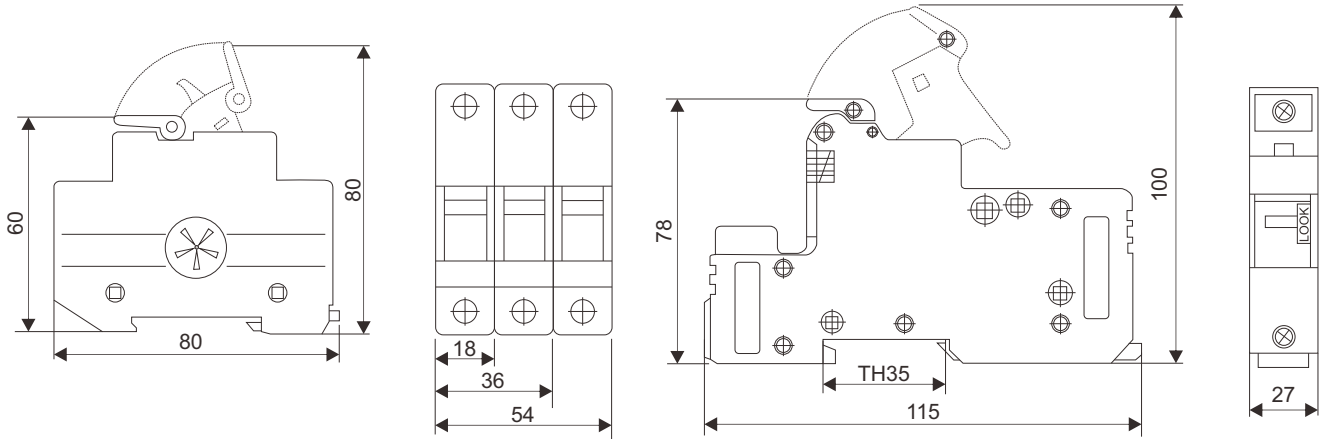


IFU-32/50/63
Fuse Base

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

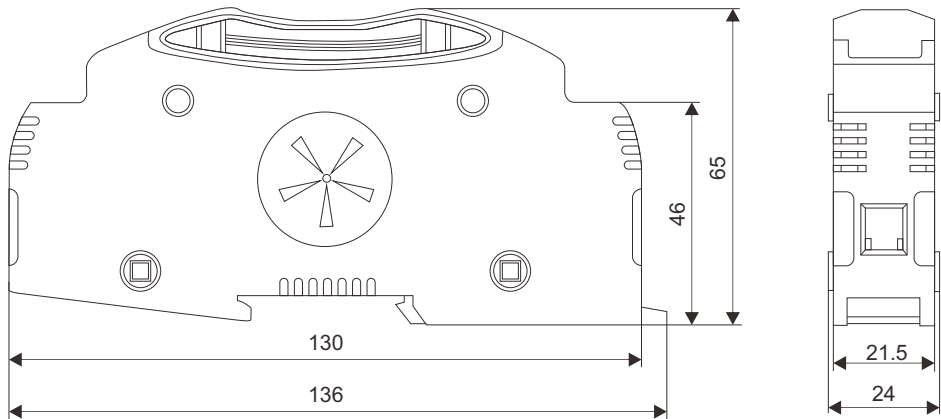
Parameter	
Rated Voltage	1000V.dc 1500V.dc
Class of Operation	gPV
Standard	GB/T 13539.6 IEC60269-6

Dimensions(mm)



IFU-32

IFU-63



IFU-63L



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 line system and other equipment from over voltage and instantaneous over voltage damage. Widely used in photovoltaic combi box, power inverter, DC distribution cabinet etc. It has advantages of large discharge current, fast respond time, low residual voltage. Max. PV voltage up to UCPV ≤1000V dc.

Main Features

- 1.High discharge capacity, quick response, module pluggable;
- 2.Fast response time, din rail installation;
- 3.Double thermal disconnection devices, provide more reliable protection;
- 4.Green window means normal, red means defect, need to change module;
- 5.Remote alarm terminal optional.
- 6.T1+T2 surge protection.

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]	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	4mm²(L-N);6mm²(PE)	
Method of installation	35mm Din Rail	
Matched fuse or circuit breaker	32A	
Type of remote signaling contact	Switching contact(Optional)	
	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.1.5mm² solid / flexible	
Operating temperature range	40°C...+80°C	



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 line system and other equipment from over voltage and instantaneous over voltage damage. Widely used in photovoltaic combi box, power inverter, DC distribution cabinet etc. It has advantages of large discharge current, fast respond time, low residual voltage. Max. PV voltage up to UCPV ≤1500V dc.

Main Features

- 1. High discharge capacity, quick response, module pluggable;
- 2. Fast response time, din rail installation;
- 3. Double thermal disconnection devices, provide more reliable protection;
- 4. Green window means normal, red means defect, need to change module;
- 5. Remote alarm terminal optional.
- 6. T1+T2 surge protection.

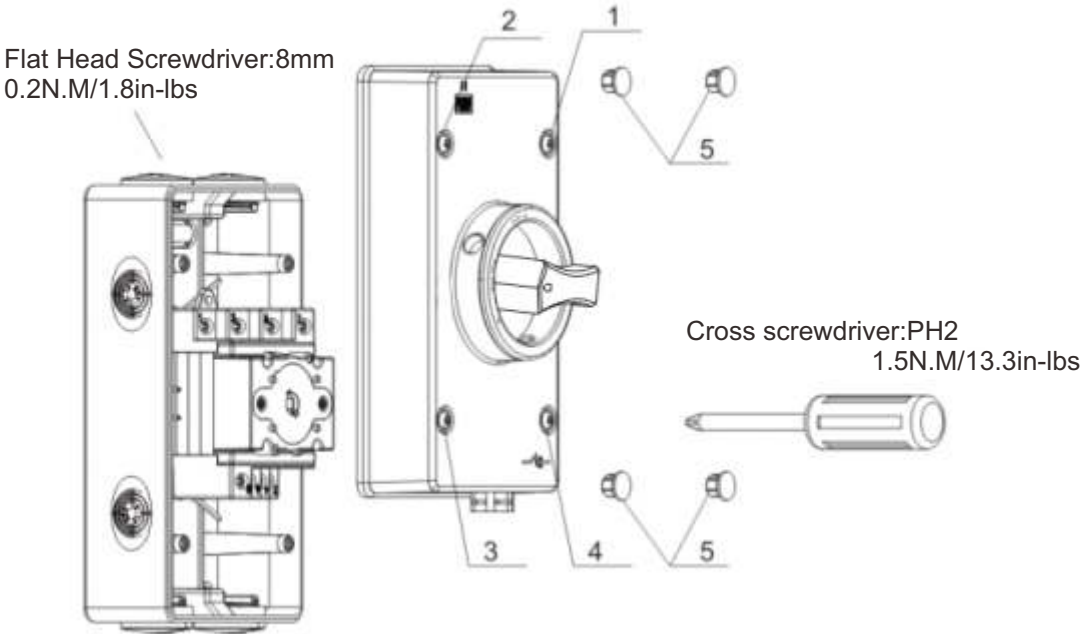
Model	IPS9-C40 PV	
Test standard	IEC/EN 61643-11; GB18802.11	
IEC test classification	T1+T2/Class I+II	
Max.PV voltage [Uc pv]	1500V DC	
Nominal discharge current(8/20μs)	20kA	
Maximum discharge current(8/20μs)	40kA	
Limp current(10/350μs)	6.25kA	
Poles	3P	
Voltage protection level Up pv	≤5.6kV	
Response time Ta	25ns	
Connecting cable	4mm²(L-N);6mm²(PE)	
Method of installation	35mm Din Rail	
Matched fuse or circuit breaker	32A	
Type of remote signaling contact	Switching contact(Optional)	
	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.1.5mm² solid / flexible	
Operating temperature range	40°C...+80°C	



ISW-N32/4
Enclosure DC Isolator

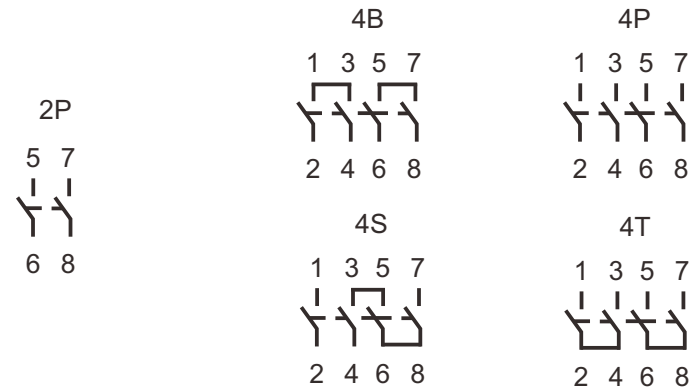
Instructions for installation and operation

- 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

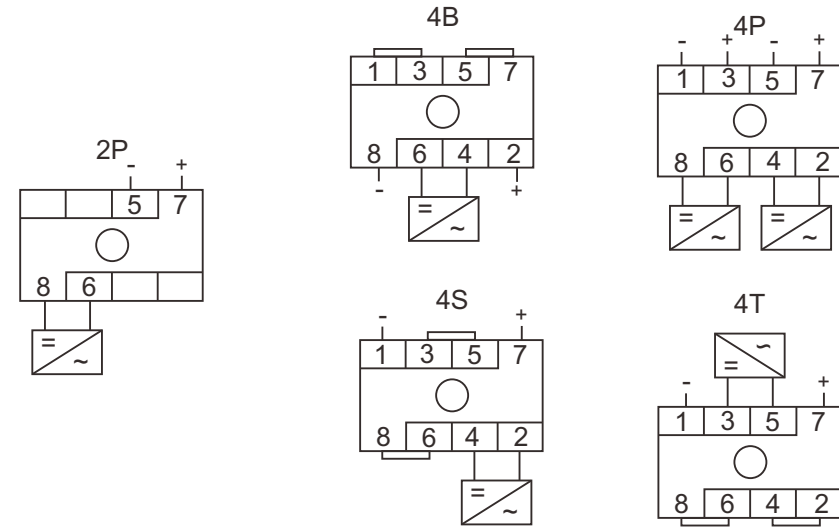


The switch with a box is suitable for outdoor use, lthe solar at 40°C=32A, lthe solar at 60°C=29A
Please note that all connections (including bridging link connections) should be tightening before energization.

DC Switch Disconnecter for Photovoltaics Wiring diagram



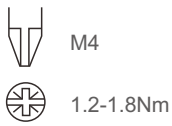
Switch examples



Cable cross sections

Rigid(Stranded or solid)	
	4-16mm ² , AWG 11-5
	4-10mm ² , AWG 11-7

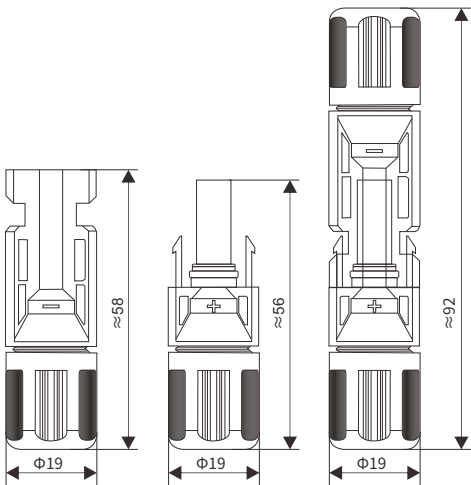
Screwdriver, Tightening torque



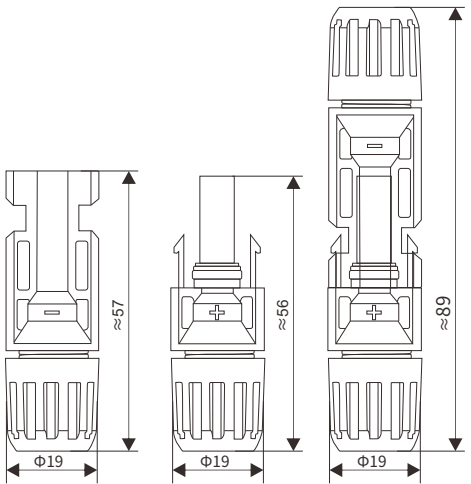
Mounting Type	Enclosure(IP66NW)	Vertically or Horizontally
	Switch body(IP20)	Vertically ↑↑

Solar DC Connector

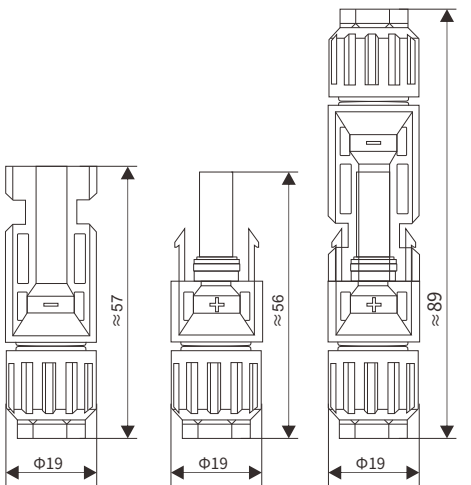
ISC4-TM4(1000V)
ISC4-TM4-1(1000V)



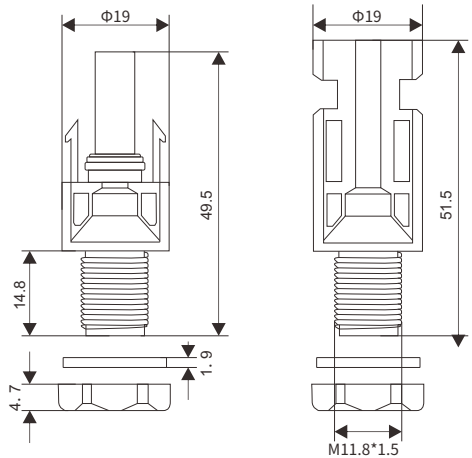
ISC4-TM3(1000V)
ISC4-TM3-1(1000V)



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



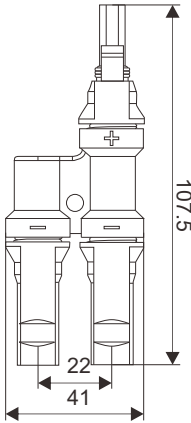
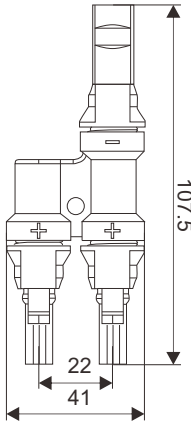
ISC4-TM1(1000V)
ISC4-TM1-1(1000V)



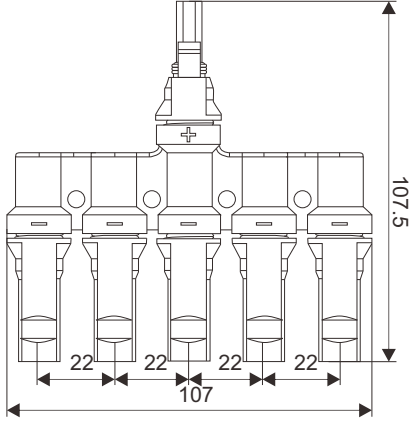
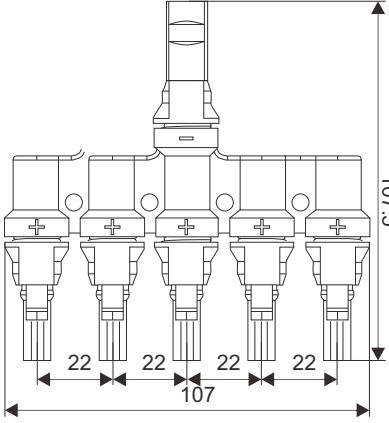
Data	
Connector system	Φ4mm
Rated voltage	1000V DC(IEC) ¹
Rated current	17A(1.5mm ²) 22A(2.5mm ² ;14AWG) 30A(4mm ² ,6mm ² ;12AWG,10AWG)
Test voltage	6kV(50HZ,1min)
Ambient temperature range	-40°C ...90°C(IEC) -40°C ...75°C(IEC)
Upper limiting temper ature	+105°C(IEC)
Degree of protection,mated	IP67
Unmated	IP2X
Comtact resistance of plug connectors	0.5mΩ
Safetyclass	II
Contact material	Messing, verzinkt 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

ISC4-T2

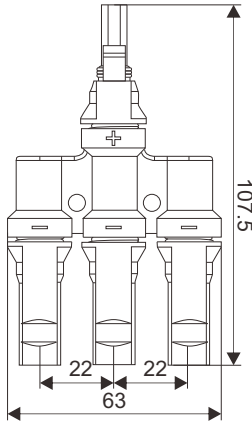
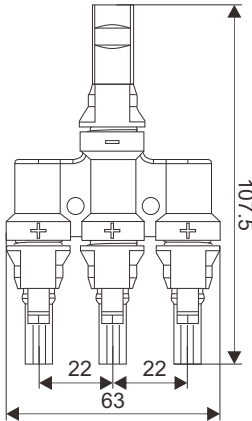
Branch Connector



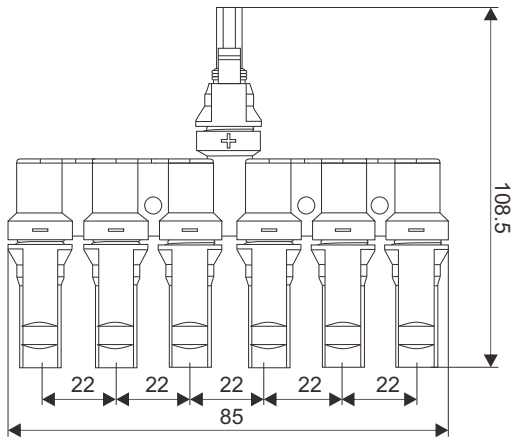
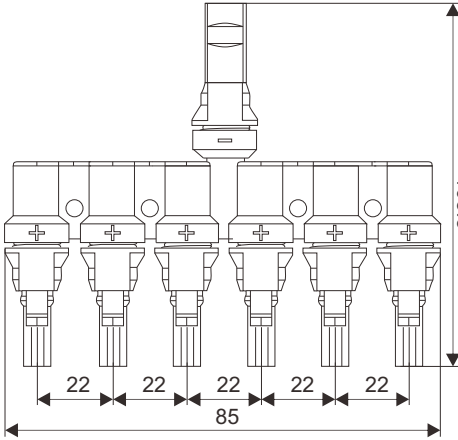
ISC4-T5



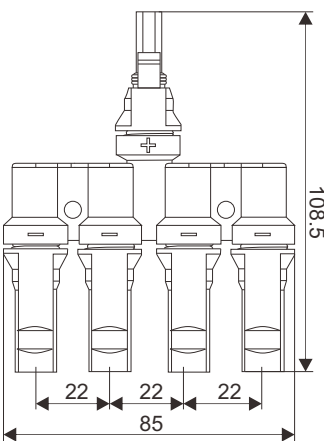
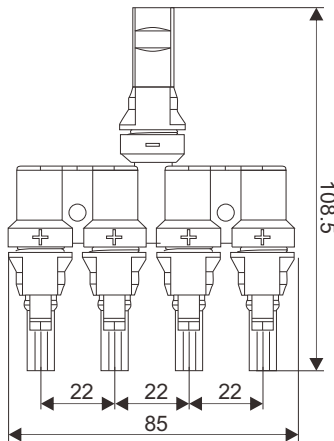
ISC4-T3



ISC4-T6



ISC4-T4



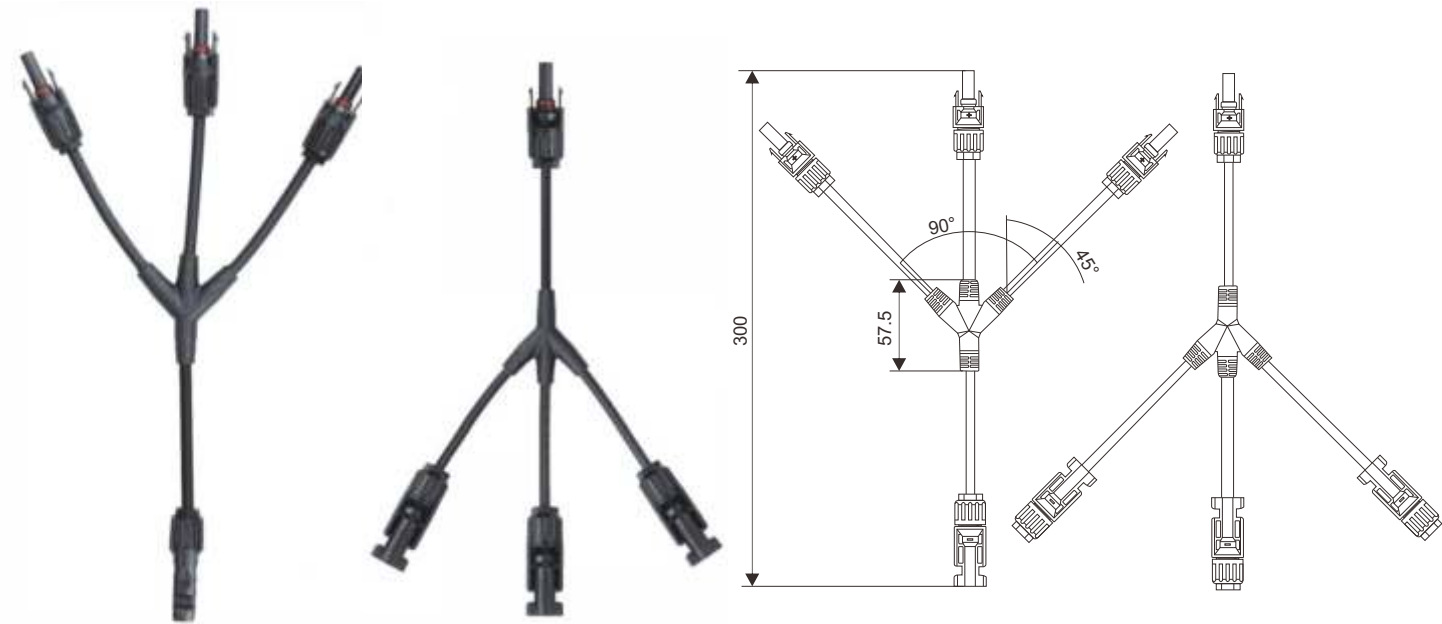
Data

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	Φ4mm

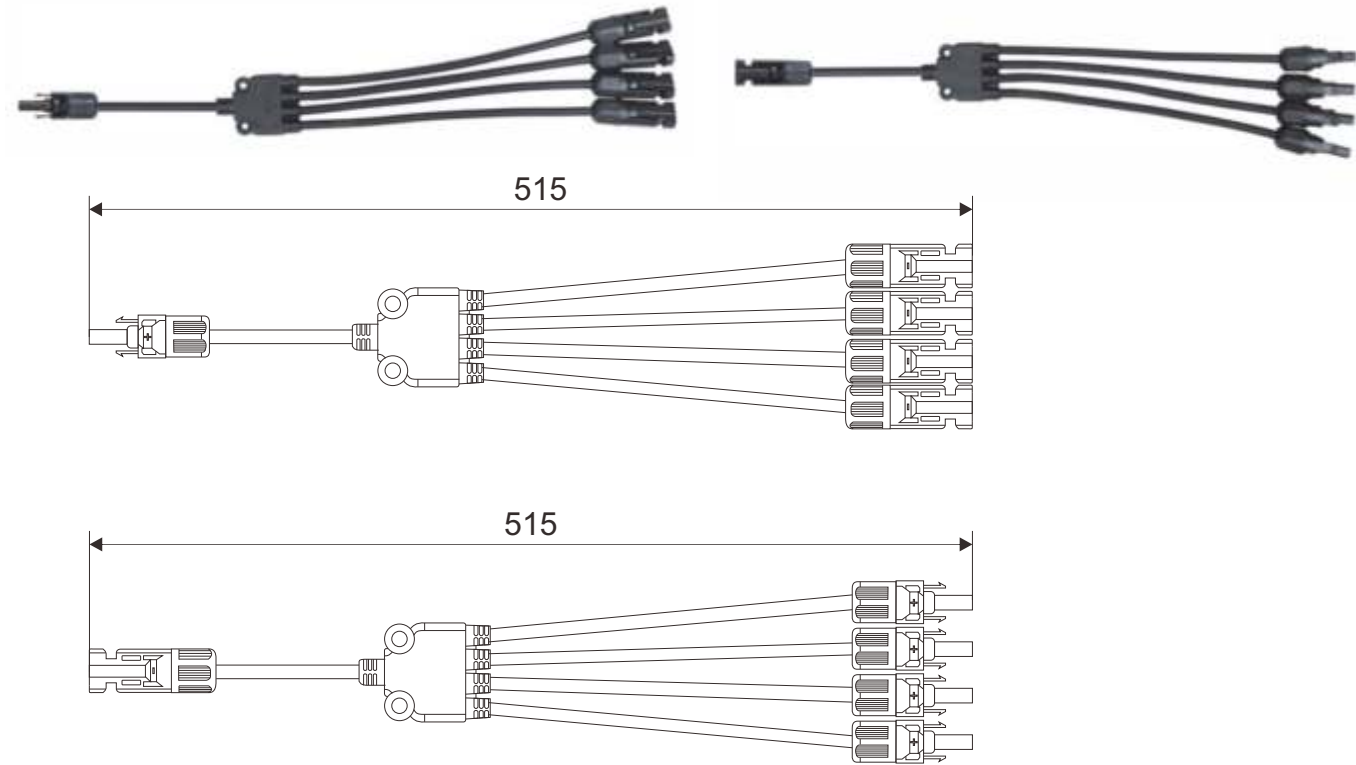
ISC4-TY2



ISC4-TY3



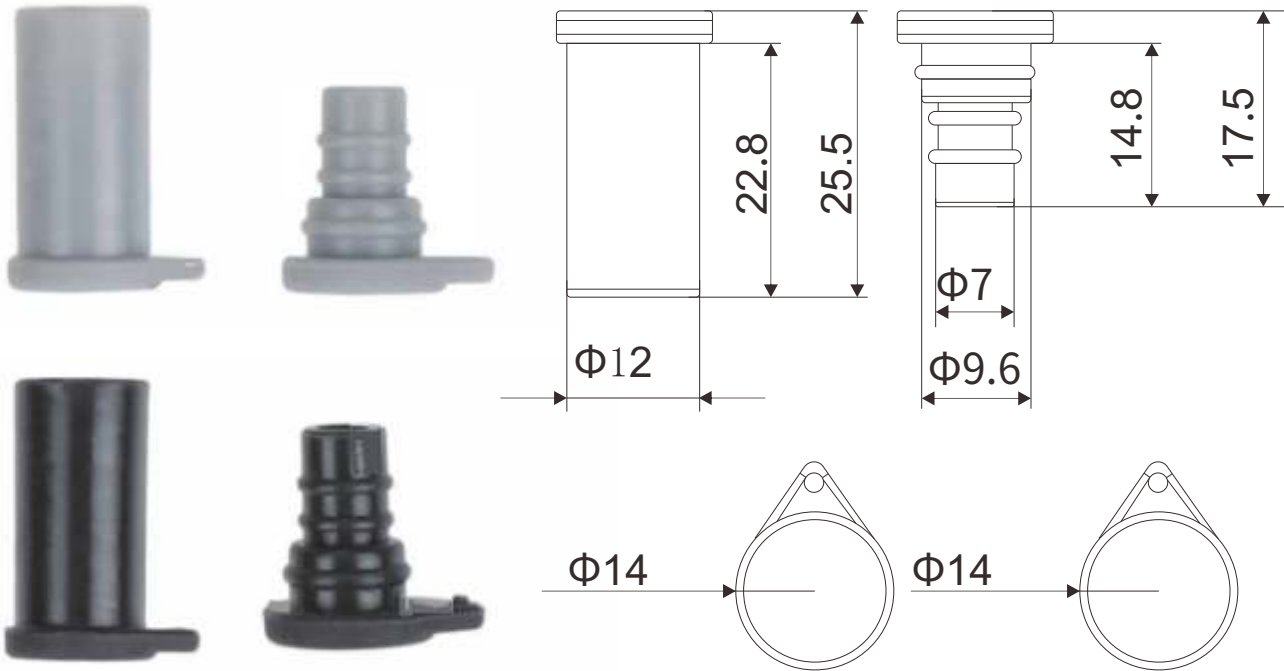
ISC4-TY4



Data	
Connector system	Φ4mm
Rated voltage	1000V DC(IEC) ¹
Rated current	30A
Test voltage	6kV(50HZ,1min)
Ambient temperature range	-40°C ...90°C(IEC) -40°C ...75°C(IEC)
Upper limiting temper ature	+105°C(IEC)
Degree of protection,mated	IP67
Unmated	IP2X
Contact 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

ISC4-T008

Protection caps



ISC4-T006

Tow-set spanners



ISC4-T001

Crimping Tool



ISC4-T002



ISC4-T003



ISC4-T005



MAIN SPECOCALITY

Suitable for crimping the cable of 2.5~6.0mm² (AWG10-14)

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 (mm ²)	Operating Temperature Range(°C)	Connector Specification (mm ²)
ISC1S-30A	30	600V	Cu/Ep&Ag	PC	UL94V-0	65Mn	-20°C~105°C	1.5-4
ISC1S-75A	75							4-16
ISC1S-120A	120							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 (mm ²)	Operating Temperature Range(°C)	Connector Specification (mm ²)
ISC2S-40A	40	600V	Cu/Ep&Ag	PC	UL94V-0	65Mn	-20°C~105°C	4-6
ISC2S-50A	50							4-12
ISC2S-120A	120							10-25
ISC2S-175A	175							10-50
ISC2S-350A	350							10-70



50A~120A
Accessories-connector
Handles



175A~350A
Accessories-connector
Handles



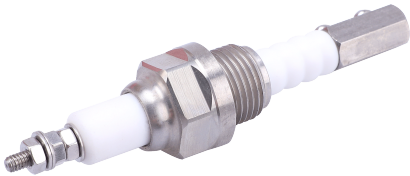
50A~350A
Accessories-connector
Dust Cover



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

Jacket:Electron-beam cross-linked material Insulation:Electron-beam cross-linked material



Conductor: Tinned Copper



Solar Cable

Construction	Conductor Construction	Conductor Outer	Cable Outer	Resistance Max.	Current Carring Capacity AT 60°C
mm ²	n x mm	mm	mm	Ω/Km	A
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

Data	
Nominal voltage	DC:1.8KV AC:0.6/1.0KV
Voltage test on completed cable	AC:6.5KV DC:15KV,5MIN
Ambient temperature	-40°C~+90°C
Max. Temperature at conductor	+120°C
Service life	>25 year (-40°C~+90°C)
Refer to short circuit allows the temperature	200°C,5s
Bending radius	≥4Xφ(D<8mm), ≥6Xφ(D<8mm)
Resistance against acid and alkaline solution	EN60811-2-1
Cold bending test	EN60811-1-4
Weathering/UV- resistance	HD605/A1
O-zone resistance at complete cable	EN50396
Test under fire conditions	EN60332-1-2



- ☐ white
- ☐ black

IWEV
Type1 Wallbox
EV Charger

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 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 1+5M cable or custom cable lengths			
Cable specification	3G2.5mm²+2*0.5mm²	3G6mm²+2*0.5mm²	3G8mm²+2*0.5mm²	5G10mm²+6mm²+1.5mm²
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



- ☐ white
- ☐ black

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	50/60Hz			
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 custom cable lengths			
Cable specification	3G2.5mm²+2*0.5mm²	3G6mm²+2*0.5mm²	5G2.5mm²+2*0.5mm²	5G6mm²+2*0.5mm²
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

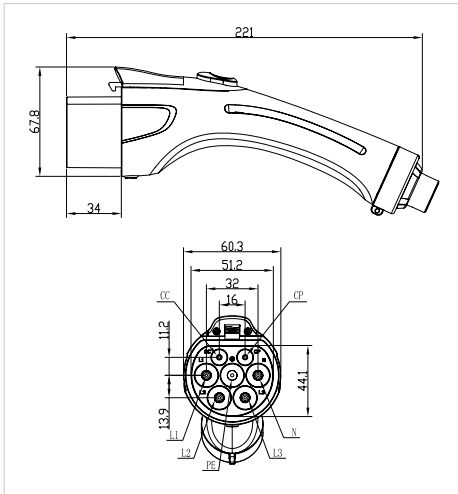
Product performance
Over voltage protection, Undervoltage protection, Overload protection, Leakage Protection, Ground protection, Over temperature protection, Lightning protection, Short circuit protection



IPEC-E-AC
AC Charger(Car End)

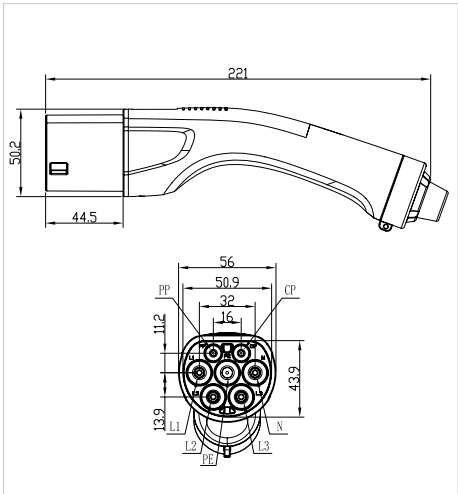
Data	
Environmental performance	
Operating temperature	-30°C~+50°C
Degree of protection	IP55
Electrical performance	
Rated current	16A/20A/32A/40A
Operation voltage	250/480V
Insulation resistance	>1000MΩ (DC500V)
Contact Resistance	0. 5mΩ Max
Terminal temperature rise	<50K
Withstand voltage	2500V
Mechanical properties	
Mechanical life	no-load plug in/out >10000times
Coupled insertion force	45N<F<100N
Impact of external force	It can withstand 1m height drop and 2t vehicle rolling
Applied Materials	
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 /	"X"after the model represents the wire length
IPEC-AC-020-F501-X	20A	TPU, Φ10.5±0.5	
IPEC-AC-016-F701-X	16A	Three phase 5x2.5mm ² +2x0.5mm ² /	
IPEC-AC-020-F701-X	20A	TPU, Φ13±0.5	
IPEC-AC-032-F501-X	32A	Single phase 3x6mm ² +2x0.5mm ² /	Cable color: black/orange optional
IPEC-AC-040-F501-X	40A	TPU, Φ13±0.5	
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
Impact of external force	It can withstand 1m height drop and 2t vehicle rolling
Applied Materials	
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 /	"X"after the model represents the wire length
IPEC-AP-020-F501-X	20A	TPU, Φ10.5±0.5	
IPEC-AP-016-F701-X	16A	Three phase 5x2.5mm ² +2x0.5mm ² /	
IPEC-AP-020-F701-X	20A	TPU, Φ13±0.5	
IPEC-AP-032-F501-X	32A	Single phase 3x6mm ² +2x0.5mm ² /	Cable color: black/orange optional
IPEC-AP-040-F501-X	40A	TPU, Φ13±0.5	
IPEC-AP-032-F701-X	32A	Single phase 5x6mm ² +2x0.5mm ² /	
IPEC-AP-040-F701-X	40A	TPU, Φ16±0.5	



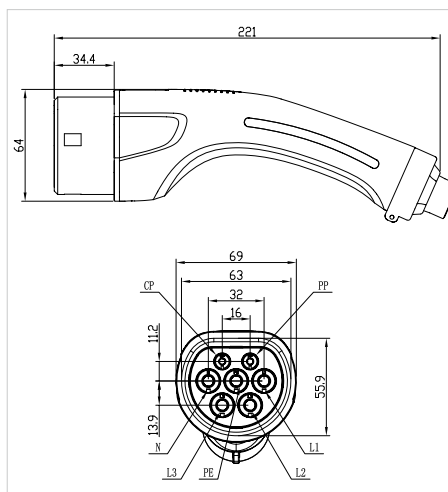
IPEC-E

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
Impact of external force	Can afford 1m drop
Applied Materials	
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..."
IPEC-AC-B01-016-XC	Cable color: black/orange optional

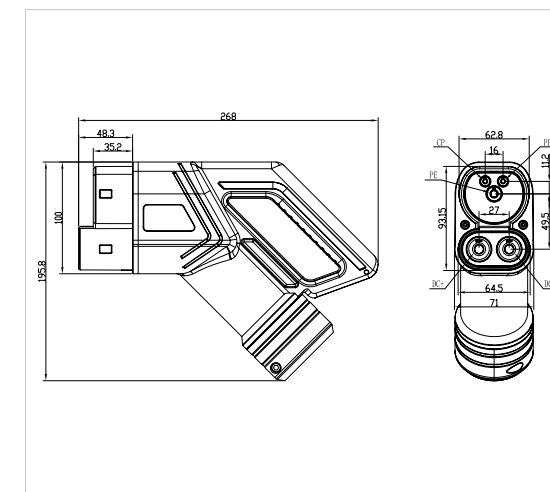
Control Box Function		
Leakage protection	Over load protection	Grounding protection
Overvoltage under-voltage protection	Lightning protection	Over temperature protection



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
Impact of external force	It can withstand 1m height drop and 2t vehicle rolling
Applied Materials	
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	$2 \times 16 \text{mm}^2 + 1 \times 16 \text{mm}^2 + \text{P}(5 \times 0.75 \text{mm}^2 + 1 \times 0.75 \text{mm}^2)$ /TPU, $\Phi 23 \pm 1$
IPEC-DC-080-F501-X	80A	
IPEC-DC-125-F701-X	125A	$2 \times 35 \text{mm}^2 + 1 \times 25 \text{mm}^2 + \text{P}(5 \times 0.75 \text{mm}^2 + 1 \times 0.75 \text{mm}^2)$ /TPU, $\Phi 29 \pm 1$
IPEC-DC-160-F701-X	160A	$2 \times 50 \text{mm}^2 + 1 \times 25 \text{mm}^2 + \text{P}(5 \times 0.75 \text{mm}^2 + 1 \times 0.75 \text{mm}^2)$ /TPU, $\Phi 32 \pm 1$
IPEC-DC-200-F501-X	200A	$2 \times 70 \text{mm}^2 + 1 \times 25 \text{mm}^2 + \text{P}(5 \times 0.75 \text{mm}^2 + 1 \times 0.75 \text{mm}^2)$ /TPU, $\Phi 35 \pm 1$

Remarks "X" after the model represents the wire length
Cable color: black/orange optional

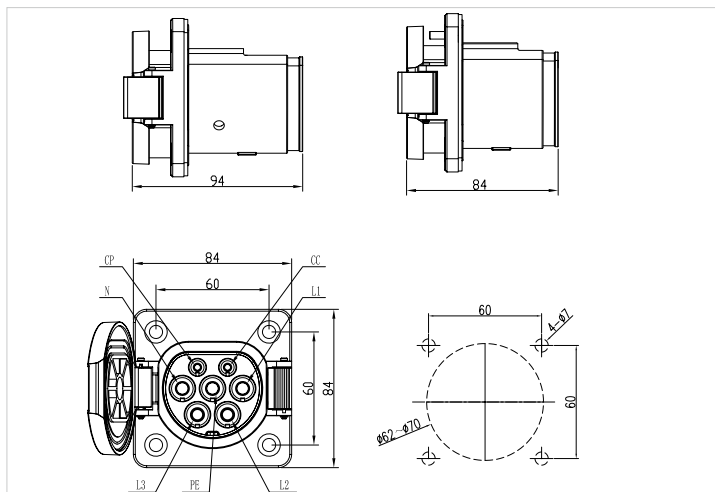


IEVC

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
Applied Materials	
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	



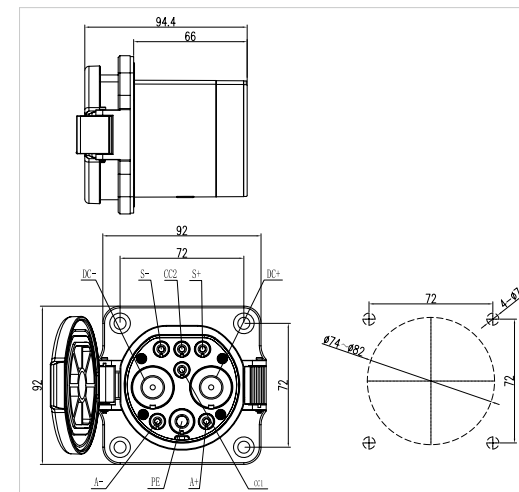
IEVC

GB DC Charging Socket

Data	
Environmental performance	
Operating temperature	-40℃~+1050℃
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
Applied Materials	
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	$2 \times 25\text{mm}^2 + 25\text{mm}^2 + 2 \times 4\text{mm}^2 \times 7 \times 0.75\text{mm}^2$ /Single core wire
IEVC-DC-080-G901-CX	125A	$2 \times 35\text{mm}^2 + 25\text{mm}^2 + 2 \times 4\text{mm}^2 \times 7 \times 0.75\text{mm}^2$ /Single core wire
IEVC-DC-080-G901-CX	160A	$2 \times 50\text{mm}^2 + 25\text{mm}^2 + 2 \times 4\text{mm}^2 \times 7 \times 0.75\text{mm}^2$ /Single core wire
IEVC-DC-080-G901-CX	250A	$2 \times 70\text{mm}^2 + 25\text{mm}^2 + 2 \times 4\text{mm}^2 \times 7 \times 0.75\text{mm}^2$ /Single core wire

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

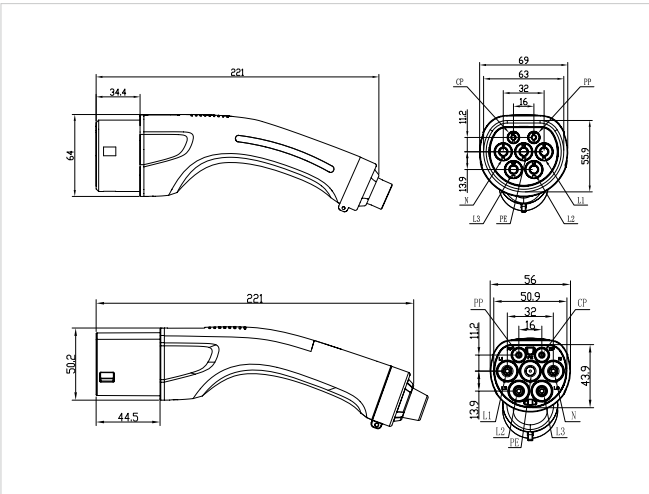




IPEC-ACP
Double Charger

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
Impact of external force	It can withstand 1m height drop and 2t vehicle rolling
Applied Materials	
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-ACP-016-F501-X	16A	Single phase 3x2.5mm ² +2x0.5mm ² /
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 3x6mm ² +2x0.5mm ² /
IPEC-ACP-040-F501-X	40A	TPU, Φ13±0.5
IPEC-ACP-032-F701-X	32A	Single phase 5x6mm ² +2x0.5mm ² /
IPEC-ACP-040-F701-X	40A	TPU, Φ16±0.5

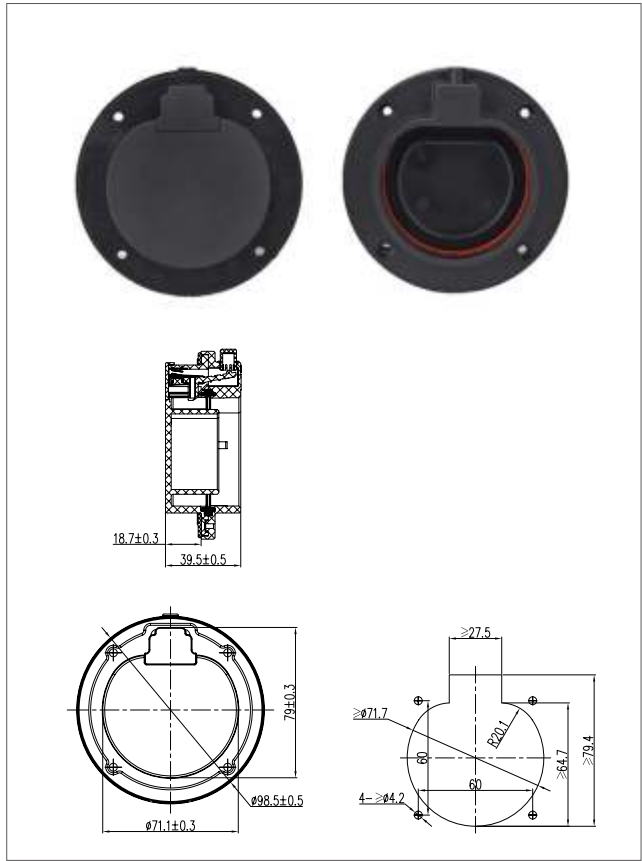


Remarks "X"after the model represents the wire length
Cable color: black/orange optional

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
Φ 6 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

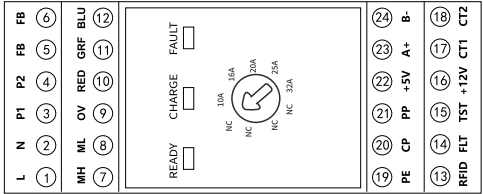
Brief description

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 current 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

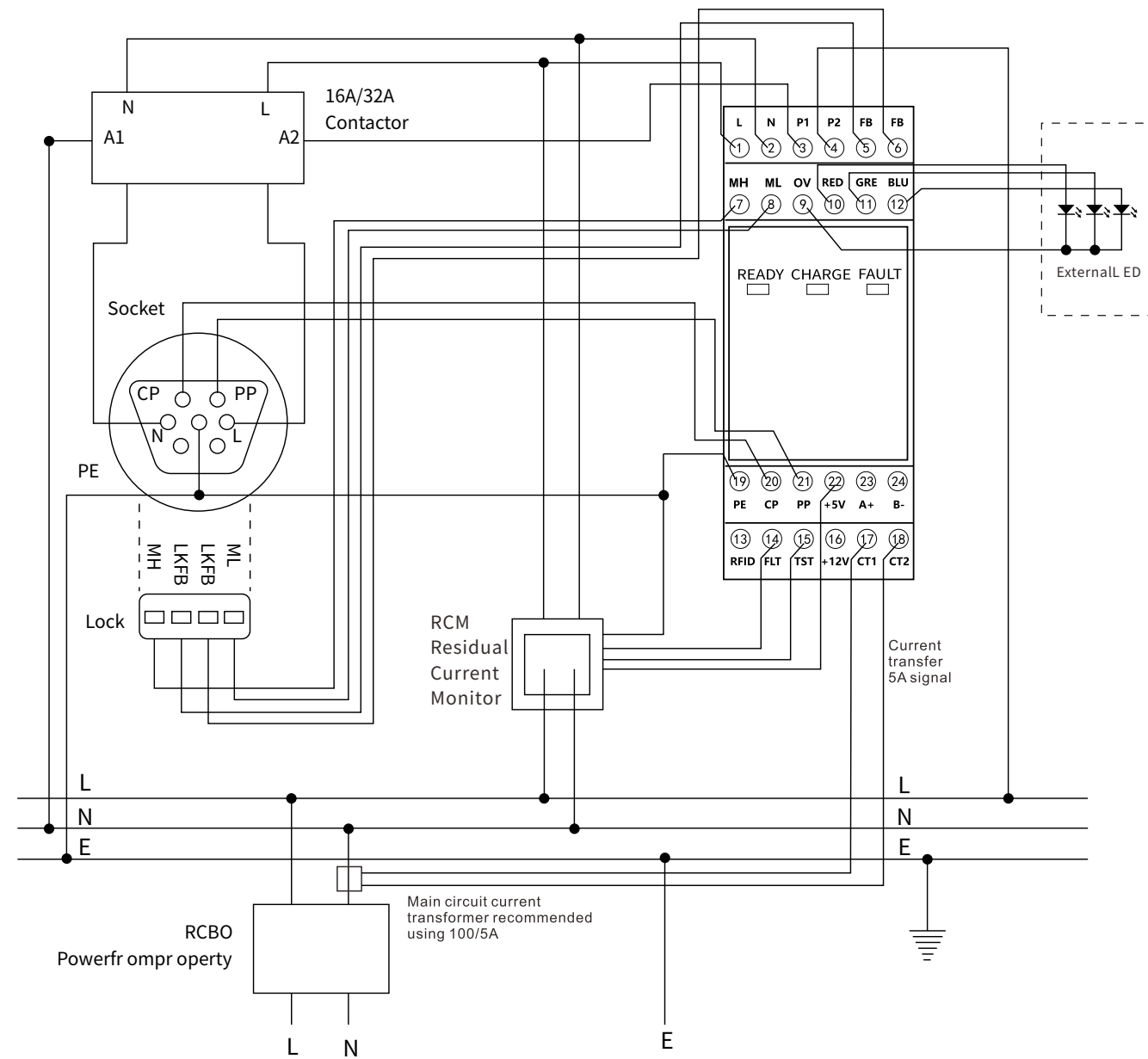
Terminal description of the controller



Terminal function description

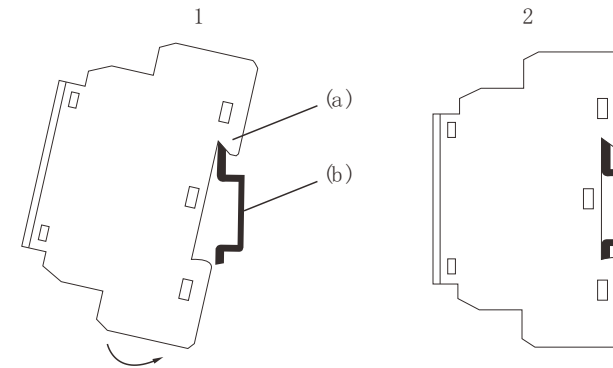
Serial number	Mark	Function	
1	L	Live line	Product working power supply:AC230V± 10% 50Hz
2	N	Neutral line	
3	P1	Relay coil A1	AC contactor connected to the connection load of charging station
4	P2	Relay coil A2	
5	FB	Reflect signal of the	This is the feedback signal on the electromagnetic lock directly to the passive contact output terminal of the electromagnetic lock
6	FB	electromagnetic lock	
7	LK+	Electromagnetic lock positive voltage	Provide positive and negative pulse voltage of tlectromagnetic lock, duty cycle of output pulse(1:3)and total pulse output maximum driving capacity of 500ms
8	LK-	Electromagnetic lock positive voltage	
9	OV	Earth terminal	External indicator light, DC 5V/10mA drive capability
10	RED	Red LED	
11	GRE	Blue LED	
12	BLU	Green LED	The signal of external non-contact IC card reading module, input is TTL voltage signal,DC3.5V/5V
13	IC	IC card-controlled input signal	
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,until 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 balance the power load, adjust the output in time, control the charging current, and protect the safety of the power supply line.
18	CT2		
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 to Modbus-RTU slave mode. Baud rate:38400,N,8,1 address number defaule:255 (Broadcast address) See Table A for details
24	B-	B+ for RS485 Communications	

Application circuit diagram

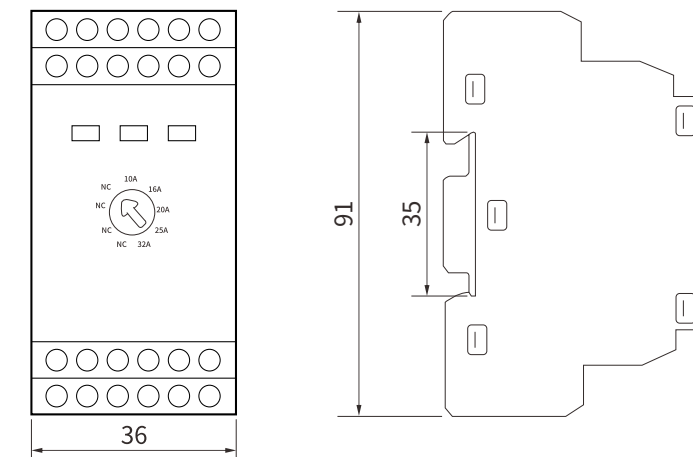


Easy installation

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



Overall dimension(mm)





IHC9
AC Contactor

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.

Table with 2 columns: Parameter, Value. Rows include: Normal working and installation conditions, Ambient air temperature, Altitude, Atmospheric conditions, Atmospheric condition pollution level, Installation category, Shock vibration, Installation mode, Installation conditions, Degree of protection, Action conditions.

Main parameters and technical performance

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

Table with 8 columns: Parameter, Product model (16A, 20A, 25A, 32A, 40A, 63A). Rows include: Normal working and installation conditions, Rated current In(A), Agreed heating current Ith(A), Rated insulation voltage Ui(V), Rated working voltage Ue(V), Number of main contacts, Control power Pe(kW), Electrical life, Mechanical life, Rated power supply voltage Us(V), Rated working system, Wiring capacity, Tightening torque.

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 80A. 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. It's suitable for terminal distribution lines in commercial office buildings, residential and general industrial use. Compliant with: IEC 61008-1, GB 16916.1

Technical parameter

Electrical Characteristics								
Classification	Protection type		Poles	Rated current(In)	Rated sensitivity (IΔn)	Sensitivity		Rated voltage(Ue)
	ELE	ELM				Instantaneous	Delayed	
A	■	■	1P+N,3P+N	25/40/63/80A	10/30/100/300mA	■	■	1P+N:240V~ 3P+N:415V~
Rated insulation voltage(Ui)	Rated frequency	Rated impulse withstand voltage(Uimp)	Rated residual making and breaking capacity IΔm	Short-circuit current Inc=IΔc	Rated residual non-operating current	Break time(Instantaneous)		
						Residual current IΔ=1IΔn	Residual current IΔ=2IΔn	Residual current IΔ=5IΔn
500V	50/60Hz	4kV	500A (below 63A) 10In(63A and above)	10kA (below 63A) 10kA(63A and above)	0.5IΔn	0.1s	0.08s	0.04s
Mechanical properties								
Mechanical life /Electric life		Protection class			Ambient temperature		Storage temperature	
		Direct install	In distribution boxI					
4000		Ip20		Ip40		-25°C+60°C		-25°C+70°C
Other characteristics								
Wiring size		Contact Status Indication	Fault Indication	Circuit identification	Connection	Assemblable accessories		
Copper/Hard Wire	Cord/Hoop Terminals							
1-35mm²		1-25mm²		—	■	—	Top and bottom (ELM) Top line(ELE)	



IYL9-B
RCCB

Scope of application

GYL9-Residual 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: IEC 62423, IEC 61008-1, GB 22794, GB 16916.1

Technical parameter

Electrical Characteristics						
Classification	Application		Poles	Rated current (In)	Rated sensitivity (I△n)	Rated Voltage (Ue)
B	Electric car charging station, charging pile	Equipment circuit controlled by three-phase inverter	1P+N,3P+N	25、40、63、80A	30、100、300mA	1P+N:240V~ 3P+N:415V~
Rated Insulation voltage (Ui)	Rated frequency		Rated impulse withstand voltage (Uimp)	Rated short-circuit current Inc=rated residual short circuit current△ I m	Rated residual connecting and breaking capacity Inc=I△c	Rated residual non-operating current
500V	50/60Hz		4kV	500A (63A below) 10In (63A and above)	6kA	0.5I△n
Mechanical properties						
Mechanical life /Electric life	Protection class			Ambient temperature	Storage temperature	
	Direct install		In distribution boxI			
4000	Ip20		Ip40	-25°C+60°C	-25°C+70°C	
Other characteristics						
Wiring size			Contact Status Indication	Fault Indication	Circuit identification	
Copper/Hard Wire	Cord/Hoop Terminals					
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 Characteristics							
Residual current operating type	Rated current (In)	Poles	Rated voltage	Rated Insulation voltage(Ui)	Rated frequency	Rated sensitivity (IΔn)	DC current operating sensitivity IΔndc
A+EV	25/40/63A	2P/4P	240/415V	500V	50/60Hz	30mA	6mA
Rated short circuit current Inc	Rated limited short-circuit current IΔc	Rated switch-on segment capacity Im	Rated switch-on segment capacity IΔm	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

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

Rated residual current breaking time				
Mechanical life	Rated sensitivity(IΔn)	Residual current segment time(S)		
		IΔn	2IΔn	5IΔn
25/40/63A0	30	0.1	0.08	0.04
	Rated sensitivity(IΔn)	Residual current segment time(S)		
		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 Characteristics								
Classification	Protection type		Poles	Rated current(In)	Rated sensitivity (IΔn)	Sensitivity		Rated voltage(Ue)
	ELE	ELM				Instantaneous	Delayed	
A			1P+N,3P+N	25/40/63A	10/30/100/300mA			1P+N:240V~ 3P+N:415V~
Rated insulation voltage(Ui)	Rated frequency	Rated impulse withstand voltage (Uimp)	Rated residual making and breaking capacity IΔm	Short-circuit current Inc=IΔc	Rated residual non-operating current	Break time(Instantaneous)		
						Residual current IΔ=1IΔn	Residual current IΔ=2IΔn	Residual current IΔ=5IΔn
500V	50/60Hz	4kV	500A (below 63A) 10In(63A and above)	6kA	0.5I n	0.1s	0.08s	0.04s

Mechanical properties				
Mechanical life/Electric life	Protection class		Ambient temperature	Storage temperature
	Direct install	In distribution box		
4000	Ip20	Ip40	-25℃+60℃	-25℃+70℃

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