



NINGBO YUSING ELECTRONICS CO.,LTD

2011

CATALOG

UPS & REGULATOR
SOLAR PRODUCT

2011

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SOLAR PRODUCT



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The Yusing elec. develops,
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the products in this catalogue
in accordance with ISO9001
standards.

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SOL3

Main Features

- High conversion efficiency based on lesding innovative photovoltaic technologies
- High stability with guaranteed $\pm 3\%$ power output tolerance,ensuring return on investment
- Beautiful appearance,withstands high wind-pressure and snow load
- Easy to install

Mechanical Caracteristics

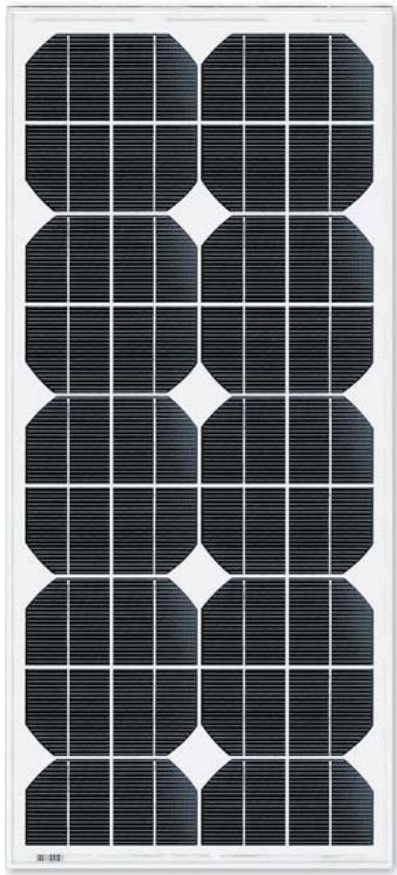
- Solar Cell:125mmx125mm Mono-crystal silicon
- Front Glass:3.2 mm tempered glass
- Allowable Hail Load:steel ball fall down from 1m height
- Frame:Anodized aluminium alloy
- Cable&connector type:Pass the TUV certificate
- Junction Box Type:Pass the TUV certificate
- Bcking(brand type)TPT

Temperature coefficients

- Nominal Operating Cell Temperature: $45 \pm 2^{\circ}\text{C}$
- Temperature coefficients of Voc (%):-0.34%/°C
- Temperature coefficients of Pm (%):-0.48%/°C
- Temperature coefficients of Im (%):0.03%/°C
- Cable&connector type:Pass the TUV certificate
- Temperature coefficients of Vm (%):-0.36%/°C

Max.limits

- Maximum system voltage (V):715V
- Temperature Range:-40°C to +85°C
- Standard Test Conditions:1000W/m2 , AM1.5 , 25' C
- Warranty :90% of 10 years,80% of 25 years



Electrical Characteristics					
Type	SOL3				
Maximum power (Wp)	5Wp	10Wp	15Wp	20Wp	25Wp
Maximum power voltage (V)	18.00	18.00	18.00	18.00	18.00
Maximum power current (A)	0.28	0.56	0.84	1.12	1.38
Open circuit voltage (V)	21.60	21.60	21.60	21.60	21.60
Short circuit current (A)	0.3	0.62	0.92	1.24	1.53
Cell Efficiency (%)	16.5%	16.5%	16.5%	16.5%	16.5%
Number of cells (Pcs)	36(2*18)	36(4*9)	36(4*9)	36(4*9)	36(4*9)
Size of module (mm)	280*204*18mm	341*280*18mm	420*281*18mm	405*423*23mm	532*418*23mm
Weight per piece (kg)	0.8	1.4	2.2	2.4	3

SOL4

Main Features

- High conversion efficiency based on lesding innovative photovoltaic technologies
- High stability with guaranteed $\pm 3\%$ power output tolerance,ensuring return on investment
- Beautiful appearance,withstands high wind-pressure and snow load
- Easy to install

Mechanical Caracteristics

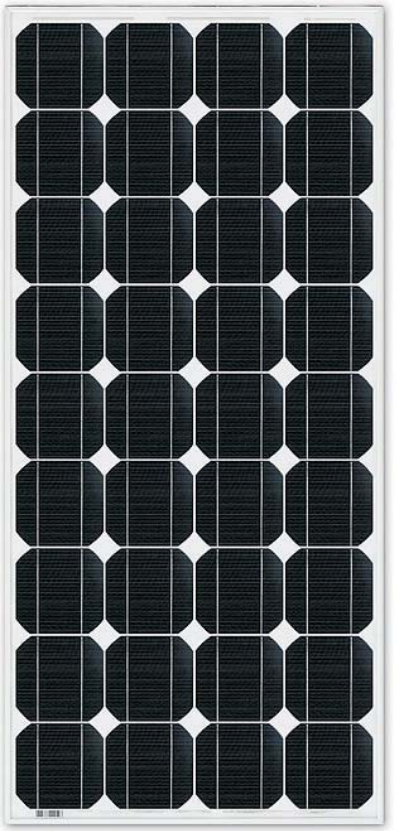
- Solar Cell:125mmx125mm Mono-crystal silicon
- Front Glass:3.2 mm tempered glass
- Allowable Hail Load:steel ball fall down from 1m height
- Frame:Anodized aluminium alloy
- Cable&connector type:Pass the TUV certificate
- Junction Box Type:Pass the TUV certificate
- Bcking(brand type)TPT

Temperature coefficients

- Nominal Operating Cell Temperature: $45 \pm 2^{\circ}\text{C}$
- Temperature coefficients of Voc (%):-0.34%/°C
- Temperature coefficients of Pm (%):-0.48%/°C
- Temperature coefficients of Im (%):0.03%/°C
- Cable&connector type:Pass the TUV certificate
- Temperature coefficients of Vm (%):-0.36%/°C

Max.limits

- Maximum system voltage (V):715V
- Temperature Range:-40°C to +85°C
- Standard Test Conditions:1000W/m2 , AM2 , 25' C
- Warranty :90% of 10 years,80% of 25 years



Electrical Characteristics			
Type	SOL4		
Maximum power (Wp)	30Wp	40Wp	50Wp
Maximum power voltage (V)	18	18	18
Maximum power current (A)	1.66	2.23	2.78
Open circuit voltage (V)	21.6	21.6	21.6
Short circuit current (A)	1.83	2.44	3.05
Cell Efficiency (%)	17%	16.5%	16.5%
Number of cells (Pcs)	36(4*9)		
Size of module (mm)	532*418*23mm	610*534*35mm	810*534*35mm
Weight per piece (kg)	3	4.5	6.5

SOL5

Main Features

- High conversion efficiency based on lesding innovative photovoltaic technologies
- High stability with guaranteed ±3% power output tolerance,ensuring return on investment
- Beautiful appearance,withstands high wind-pressure and snow load
- Easy to install

Mechanical Caracteristics

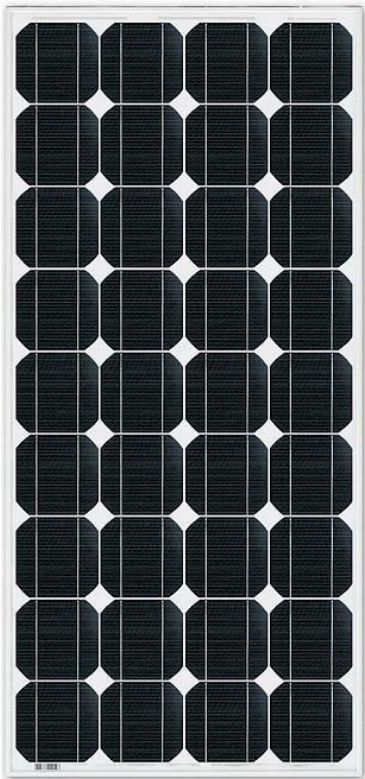
- Solar Cell:125mmx125mm Mono-crystal silicon
- Front Glass:3.2 mm tempered glass
- Allowable Hail Load:steel ball fall down from 1m height
- Frame:Anodized aluminium alloy
- Cable&connector type:Pass the TUV certificate
- Junction Box Type:Pass the TUV certificate
- Bcking(brand type)TPT

Temperature coefficients

- Nominal Operating Cell Temperature: $45\pm 2^{\circ}\text{C}$
- Temperature coefficients of Voc (%):-0.34%/°C
- Temperature coefficients of Pm (%):-0.48%/°C
- Temperature coefficients of Im (%):0.03%/°C
- Cable&connector type:Pass the TUV certificate
- Temperature coefficients of Vm (%):-0.36%/°C

Max.limits

- Maximum system voltage (V) :1000V
- Temperature Range:-40°C to +85°C
- Standard Test Conditions:1000W/m2 , AM1.5 , 25' C
- Warranty :90% of 10 years,80% of 25 years



SOL6

Main Features

- High conversion efficiency based on lesding innovative photovoltaic technologies
- High stability with guaranteed ±3% power output tolerance,ensuring return on investment
- Beautiful appearance,withstands high wind-pressure and snow load
- Easy to install

Mechanical Caracteristics

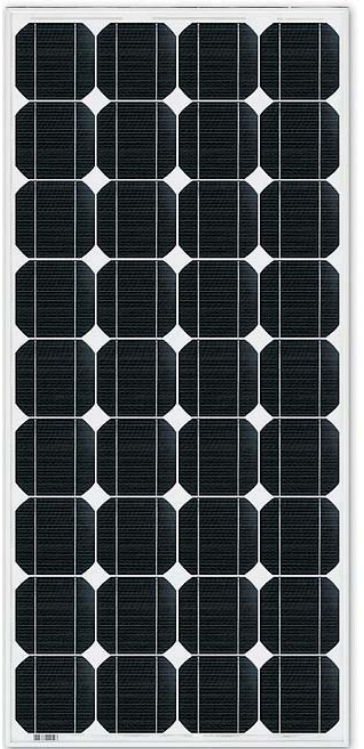
- Solar Cell:125mmx125mm Mono-crystal silicon
- Front Glass:3.2 mm tempered glass
- Allowable Hail Load:steel ball fall down from 1m height
- Frame:Anodized aluminium alloy
- Cable&connector type:Pass the TUV certificate
- Junction Box Type:Pass the TUV certificate
- Bcking(brand type)TPT

Temperature coefficients

- Nominal Operating Cell Temperature: $45\pm 2^{\circ}\text{C}$
- Temperature coefficients of Voc (%):-0.34%/°C
- Temperature coefficients of Pm (%):-0.48%/°C
- Temperature coefficients of Im (%):0.03%/°C
- Cable&connector type:Pass the TUV certificate
- Temperature coefficients of Vm (%):-0.36%/°C

Max.limits

- Maximum system voltage (V) :1000V
- Temperature Range:-40°C to +85°C
- Standard Test Conditions:1000W/m2 , AM1.5 , 25' C
- Warranty :90% of 10 years,80% of 25 years



Electrical Characteristics				
Type	SOL5			
Maximum power (Wp)	75Wp	100Wp	120Wp	125Wp
Maximum power voltage (V)	18.00	19.00	18.00	18.00
Maximum power current (A)	4.16	5.26	6.67	6.95
Open circuit voltage (V)	21.60	22.80	21.60	21.60
Short circuit current (A)	0.3	0.62	0.92	1.24
Cell Efficiency (%)	16.25%	17.75%	16.25%	16.5%
Number of cells (Pcs)	36(4*9) / 72(4*18)		72(4*18)	
Size of module (mm)	1196*534*35mm		1196*808*35mm	
Weight per piece (kg)	8		12	

Electrical Characteristics			
Type	SOL6		
Maximum power (Wp)	150Wp	175wp	180wp
Maximum power voltage (V)	30	36.15	36.36
Maximum power current (A)	5	4.84	4.95
Open circuit voltage (V)	36	43.38	43.64
Short circuit current (A)	5.4	5.33	5.45
Cell Efficiency (%)	17%	16.5%	17%
Number of cells (Pcs)	60(6*10)	72(8*9)	
Size of module (mm)	1306*808*35mm	1580*808*35	
Weight per piece (kg)	14	15.5	

SOL7

Main Features

- High conversion efficiency based on lesding innovative photovoltaic technologies
- High stability with guaranteed ±3% power output tolerance,ensuring return on investment
- Beautiful appearance,withstands high wind-pressure and snow load
- Easy to install

Mechanical Caracteristics

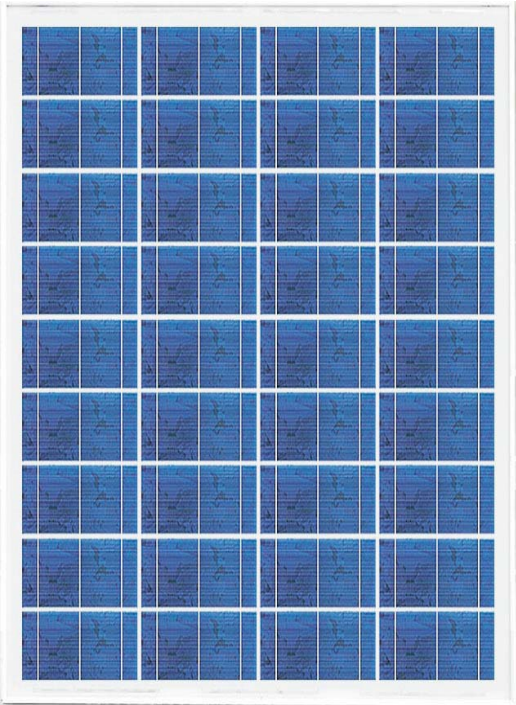
- Solar Cell:125mmx125mm Mono-crystal silicon
- Front Glass:3.2 mm tempered glass
- Allowable Hail Load:steel ball fall down from 1m height
- Frame:Anodized aluminium alloy
- Cable&connector type:Pass the TUV certificate
- Junction Box Type:Pass the TUV certificate
- Bcking(brand type)TPT

Temperature coefficients

- Nominal Operating Cell Temperature:45±2°C
- Temperature coefficients of Voc (%):-0.34%/°C
- Temperature coefficients of Pm (%):-0.48%/°C
- Temperature coefficients of Im (%):0.03%/°C
- Cable&connector type:Pass the TUV certificate
- Temperature coefficients of Vm (%):-0.36%/°C

Max.limits

- Maximum system voltage (V) :1000V
- Temperature Range:-40°C to +85°C
- Standard Test Conditions: 1000W/m2 , AM1.5 , 25' C
- Warranty :90% of 10 years,80% of 25 years



Electrical Characteristics						
Type	SOL7					
Maximum power (Wp)	30Wp	40Wp	50Wp	70Wp	80Wp	90Wp
Maximum power voltage (V)	17.49	17.49	17.13	17.13	18.22	18.4
Maximum power current (A)	1.71	2.28	2.91	4.09	4.39	4.96
Open circuit voltage (V)	21.67	21.67	21.63	21.63	21.85	21.81
Short circuit current (A)	1.83	2.44	3.12	4.37	4.70	5.30
Cell Efficiency (%)	13.69%	13.69%	14.13%	13.4%	15.3%	15.4%
Number of cells (Pcs)	36(3*12)	36(4*9)				
Size of module (mm)	545*515*35	668*545*35	655*668*35	895*668*35		532*418*23mm
Weight per piece (kg)	3.9	4.3	6.3	6.8	9	9

SOL8

Main Features

- High conversion efficiency based on lesding innovative photovoltaic technologies
- High stability with guaranteed ±3% power output tolerance,ensuring return on investment
- Beautiful appearance,withstands high wind-pressure and snow load
- Easy to install

Mechanical Caracteristics

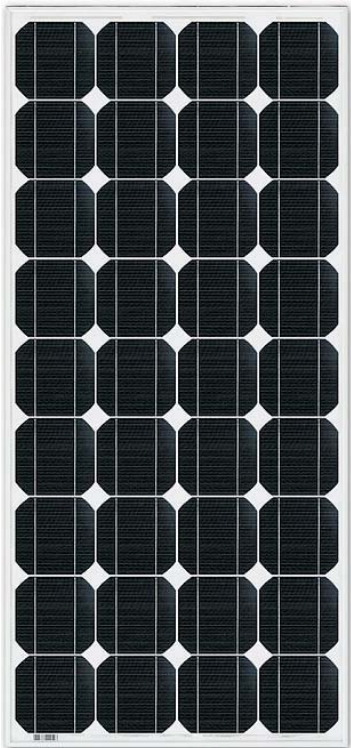
- Solar Cell:125mmx125mm Mono-crystal silicon
- Front Glass:3.2 mm tempered glass
- Allowable Hail Load:steel ball fall down from 1m height
- Frame:Anodized aluminium alloy
- Cable&connector type:Pass the TUV certificate
- Junction Box Type:Pass the TUV certificate
- Bcking(brand type)TPT

Temperature coefficients

- Nominal Operating Cell Temperature:45±2°C
- Temperature coefficients of Voc (%):-0.34%/°C
- Temperature coefficients of Pm (%):-0.48%/°C
- Temperature coefficients of Im (%):0.03%/°C
- Cable&connector type:Pass the TUV certificate
- Temperature coefficients of Vm (%):-0.36%/°C

Max.limits

- Maximum system voltage (V) :1000V
- Temperature Range:-40°C to +85°C
- Standard Test Conditions:1000W/m2 , AM1.5 , 25' C
- Warranty :90% of 10 years,80% of 25 years



Electrical Characteristics							
Type	SOL8						
Maximum power (Wp)	100Wp	120Wp	130Wp	170wp	175wp	180wp	185wp
Maximum power voltage (V)	17.49	17.49	18	24	24	24.19	24.38
Maximum power current (A)	5.71	6.86	7.2	7.08	7.29	7.44	7.79
Open circuit voltage (V)	21.67	21.67	21.74	28.9	28.9	29.09	29.18
Short circuit current (A)	6.11	7.34	7.72	7.64	7.87	7.96	8.34
Cell Efficiency (%)	13.69%	13.69%	14.83%	14.5%	15%	15.4%	15.84%
Number of cells (Pcs)	36(4*9)	36(4*9)	36(4*9)	48(6*8)	48(6*8)	48(6*8)	48(6*8)
Size of module (mm)	1245*668*35	1485*668*35	1485*668*35	1330*990*40			
Weight per piece (kg)	11.6	11.6	11.6	16.4	16.4	16.4	16.4

SOL102



BIPV Solar Panel (SOL102)							
Type	Folded Size	Weight	Specification				
			Max-Powe	Max-Power Voltage	Max-Power Current	Open-Circuit Voltage	Short-circuit Current
Module	mm	Kg	W	V	A	V	A
SOL102-190A	1644*985*8(6*12)	33	190	37.08	5.12	44.48	5.54
SOL102-190B	1574*802*8(6*12)	22.5	190	37.08	5.12	44.48	5.54
SOL102-180A	1644*985*8(6*12)	33	180	36	5	43.2	5.4
SOL102-180B	1574*802*8(6*12)	22.5	180	36	5	43.2	5.4
SOL102-150A	1510*985*8(6*10)	28	150	30	5	36	5.4
SOL102-150B	1300*802*8(6*10)	18.6	150	30	5	36	5.4
SOL102-100A	1545*720*8(4*9)	20	100	19	5.28	22.8	5.68
SOL102-100B	1189*528*8(4*9)	11.5	100	19	5.28	22.8	5.68
SOL102-90A	1545*720*8(4*9)	20	90	18	5	21.6	5.4
SOL102-90B	1189*528*8(4*9)	11.5	90	18	5	21.6	5.4

SOL101



Portable Folding Solar Charger Kits (SOL101)								
Type	Folded Size	Weight	Specification					Accessories
			Max-Power	Max-Power Voltage	Max-Power Current	Open-Circuit Voltage	Short-circuit Current	
Module	mm	Kg	W	V	A	V	A	
SOL101-120W	810*534*70	14	120	18	6.67	21.6	7.2	Controller,Cable(5M), Alligator Clip,Connector, Supporting Leg,
SOL101-110W			110	18	6.61	21.6	6.6	
SOL101-100W	610*534*70	11	100	18	5.56	21.6	6	
SOL101-90W			90	18	5	21.6	5.4	Single Bag,
SOL101-80W			80	18	4.44	21.6	4.8	Protection Corner
Solar Charger Controller (PMW normal controller or PMW waterproof controller or MPPT controller)								
Connectors (Anderson Plug is possible)								

SOL901

Main Features

- 1 pc 12V 11W energy saving lamp
- 1 pc 20W solar panel
- 1 pc 12V 20A charge controller
- 1 pc 12V 24AH maintenance free lead-acid battery
- High quality cables for connection
- Solar panel to controller cables' length: 5M
- Battery to controller cables' length: 1 M
- Lamp to controller cables' length: 10M
- Illumination time after fully charged: about 21 hours



SOL902

Main Features

- 2 pc 12V 11W energy saving lamp
- 1 pc 40W solar panel
- 1 pc 12V 20A charge controller
- 1 pc 12V 50AH maintenance free lead-acid battery
- High quality cables for connection
- Solar panel to controller cables' length: 5M
- Battery to controller cables' length: 1 M
- Lamp to controller cables' length: 10M
- Illumination time after fully charged: about 22 hours



SOL903

Main Features

- 1) 1 pc 50W polycrystal solar panel
- 2) 3 pcs 12V 9W energy saving lamp
- 3) 1 pc control box:
 - 1 pc 12V 20A charge controller
 - 1 pc 12V 65AH lead-acid battery
- 4) High quality cables for connection
 - Solar panel to Control box cables' length: 5M
 - Lamp to Control box cables' length: 8M
 - Illumination time after fully charged: about 21 hours



SOL904

Main Features

- 4 pc 12V 11W energy saving lamp
- 1 pc 80W solar panel
- 1 pc 12V 20A charge controller
- 1 pc 12V 100AH maintenance free lead-acid battery
- High quality cables for connection
- Solar panel to controller cables' length: 5M
- Battery to controller cables' length: 1 M
- Lamp to controller cables' length: 10M
- Illumination time after fully charged: about 22 hours



SOL905

Main Features

- Amorphous solar panel with 3.7 meter cable
- LED test light
- Crocodile clips for battery
- Female vehicle cable
- Bare cable inter-connector
- Peak Power: 2 W
- Maximum Power Current (Im): 120 mA
- Maximum Power Voltage (Vm): 17.7 V
- Dimensions: 315 x 132 x 18 mm
- Trickle charge your battery with solar power, even if cloudy day
- Weatherproof, Maintenance free
- Ideal for cars, caravans, boats, mobile phones, digital cameras etc.



SOL906

Main Features

- Amorphous solar panel with 3.7 meter cable
- LED test light
- Crocodile clips for battery
- Female vehicle cable
- Bare cable interconnector
- Peak Power: 2 W
- Maximum Power Current (Im): 120 mA
- Maximum Power Voltage (Vm): 17.7 V
- Dimensions: 315 x 132 x 18 mm
- Trickle charge your battery with solar power, even if cloudy day
- Weatherproof, Maintenance free
- Ideal for cars, caravans, boats, mobile phones, digital cameras etc.



SOL907

Main Features

- Amorphous solar panel with 3.7 meter cable
- LED test light
- Crocodile clips for battery
- Female vehicle cable
- Bare cable inter-connector
- Peak Power: 5 W
- Maximum Power Current (Im): 300 mA
- Maximum Power Voltage (Vm): 17.7 V
- Dimensions: 315 x 315 x 18 mm
- Trickle charge your battery with solar power, even if cloudy day
- Weatherproof, Maintenance free
- Ideal for cars, caravans, boats, mobile phones, digital cameras etc.



SOL908

Main Features

- Amorphous solar panel with 3.7 meter cable
- LED test light
- Crocodile clips for battery
- Female vehicle cable
- Bare cable inter-connector
- Peak Power: 15 W
- Maximum Power Current (Im): 900 mA
- Maximum Power Voltage (Vm): 17.7 V
- Dimensions: 311 x 921 x 18mm
- Trickle charge your battery with solar power, even if cloudy day
- Weatherproof, Maintenance free
- Ideal for cars, caravans, boats, mobile phones, digital cameras etc.



SOL909

Main Features

- Amorphous solar panel with 2.7 meter wire
- 4 pre cut holes for easy installation
- 4 stainless steel screws
- Cigarette lighter 12V DC plug
- Crocodile clips for battery
- LED test light
- Bare cable inter-connector
- Peak Power: 5 W
- Maximum Power Current (Im): 260 mA
- Maximum Power Voltage (Vm): 19.4 V
- Dimensions: 35 x 33.6 x 1.5 mm
- Trickle charge your battery with solar power, even if cloudy day
- Weatherproof, Maintenance free
- Ideal for cars, caravans, boats, mobile phones, digital cameras etc.
- Interchangeable connectors: cigarette lighter plug and crocodile clips
- Durable ABS outer casing
- Built-in diode prevents reverse charging



SOL910

Main Features

- Solar wattage:50W
- Maintenance free lead-acid battery:12V/70Ah 1pc
- Output Voltage:AC110/230V
- Inverter:12V/150W
- PV Controller:12V/10A
- Distribution Box Size(cm):33x36x20
- Dynamoelectric Capability:150-250WH
- Maximal Capacity:500WH
- Maximal Output Power:150W



SOL937

Main Features

- Solar panel:9V 1.5W with cable life time 10years
- Over-charging/over-discharging/short-circuit protection
- 5PCS AA Size 1000mAH NI-MH rechargeable battery
- ABS Body material
- 6V/1W LED Lamp with 3m cable
- One universal charger for any type mobile phone battery
- Charging time : 6-8hrs with solar panel
- Lighting duration after fully charged:8hrs



SOL927



Main Features

- Cord length:10ft
- Brushless and shaftless DC Motor Pump: 7V 0.9W 120MA
- Monocrystal Solar board: 7V 1.12W 160MA
- Solar Board size:110*110MM ATTINY13 Controller

Model	Max.Lift	Max.Flow rate(GPH)	Packing(pcs/m3/kg)
SOL927	2.3ft	39	50/0.037/13.38

SOL928



Main Features

- Cord length:10ft
- Brushless and shaftless DC Motor Pump: 9V 1.8W 200MA
- Monocrystal Solar board: 9V 1.8W 200MA
- Solar Board size:177*120MM ATTINY13 Controller

Model	Max.Lift	Max.Flow rate(GPH)	Packing(pcs/m3/kg)
SOL928	3.6ft	57	40/0.063/11.5

SOL929



Main Features

- Cord length:10ft
- Brushless and shaftless DC Motor Pump: 10V 1.5W 150MA
- Monocrystal Solar board: 10V 2.8W 280MA
- Solar Board size:273*197MM ATTINY13 Controller

Model	Max.Lift	Max.Flow rate(GPH)	Packing(pcs/m3/kg)
SOL929	2.9ft	78	20/0.076/21

SOL930



Main Features

- Cord length:10ft
- Brushless and shaftless DC Motor Pump: 12V 2.5W 200MA
- Monocrystal Solar board: 12V 4.8W 400MA
- Solar Board size:273*197MM ATTINY13 Controller

Model	Max.Lift	Max.Flow rate(GPH)	Packing(pcs/m3/kg)
SOL930	3.3ft	91	20/0.076/21

SOL931



Main Features

- Cord length:10ft
- Brushless and shaftless DC Motor Pump: 12V 5W 300MA
- Monocrystal Solar board: 12V 5W 420MA
- Solar Board size:273*197MM ATTINY13 Controller

Model	Max.Lift	Max.Flow rate(GPH)	Packing(pcs/m3/kg)
SOL931	6.5ft	99	20/0.076/21

SOL932



Main Features

- Cord length:10ft
- Brushless and shaftless DC Motor Pump: 7V 1.12W 160MA
- Monocrystal Solar board: 10V 4W 400MA
- Solar Board size:273*197MM ATTINY13 Controller
- Ni-cd AA1600mAh battery(7.2V) Working Hour: 8hours

Model	Max.Lift	Max.Flow rate(GPH)	Packing(pcs/m3/kg)
SOL932	2ft	52	20/0.076/21

SOL933



Main Features

- Cord length:10ft
- Brushless and shaftless DC Motor Pump: 7V 1.12W 160MA
- Monocrystal Solar board: 8V 1.4W 175MA
- Solar Board size:160*160MM ATTINY13 Controller

Model	Max.Lift	Max.Flow rate(GPH)	Packing(pcs/m3/kg)
SOL933	1.5ft	39	40/0.055/10.5

SOL934



Main Features

- Cord length:10ft
- Brushless and shaftless DC Motor Pump: 20V 30W 1500MA
- Monocrystal Solar board: 20V 30W 1500MA
- Solar Board size:571*527*38MM ATTINY13 Controller

Model	Max.Lift	Max.Flow rate(GPH)	Packing(pcs/m3/kg)
SOL934	6.5ft	208	1/0.016/5.6

SOL935



Main Features

- Cord length:10ft
- Brushless and shaftless DC Motor Pump: 20V 40W 2000MA
- Monocrystal Solar board: 20V 40W 2000MA
- Solar Board size:648*508*32MM ATTINY13 Controller

Model	Max.Lift	Max.Flow rate(GPH)	Packing(pcs/m3/kg)
SOL935	8.5ft	390	1/0.018/6.5

SOL936



Main Features

- Cord length:10ft
- Brushless and shaftless DC Motor Pump: 20V 50W 2500MA
- Monocrystal Solar board: 20V 50W 2500MA
- Solar Board size:793*514*32MM ATTINY13 Controller

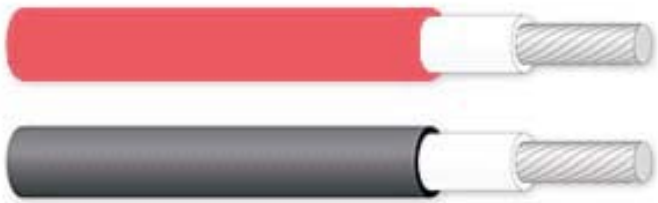
Model	Max.Lift	Max.Flow rate(GPH)	Packing(pcs/m3/kg)
SOL936	10.5ft	520	1/0.02/7.1

SOL911~926



Model	Wattage(W)	Solar model(W)	Battery (AH)	Batter QTY	Output voltage	Inverter	Controller	Dyanyamo electric capabilit
SOL911	100	1*100	12V 150AH	1	AC110/230V	12V 150W	12V 10A*1	300-500WH
SOL912	200	2*200	12V 120AH	2	AC110/230V	12V 300W	12V 10A*2	600-1000WH
SOL913	300	2*150	12V 70AH	4	AC110/230V	12V 500W	12V 10A*2	900-1500WH
SOL914	500	4*125	12V 150AH	4	AC110/230V	12V 1000W	12V 10A*4	1500-2500WH
SOL915	800	4*200	12V 200AH	4	AC110/230V	12V 1000W	12V 20A*4	2400-4000WH
SOL916	1000	8*125	12V 150AH	8	AC110/230V	48V 1000W	12V 10A*8	3000-5000WH
SOL917	1500	12*125	12V 150AH	12	AC110/230V	48V 2000W	12V 20A*6	4500-7500WH
SOL918	2000	12*166	2V 500AH	24	AC110/230V	48V 3KW	48V 20A*3	6000-10000WH
SOL919	2500	12*208	2V 600AH	24	AC110/230V	48V 5KW	48V 30A*3	7500-12500WH
SOL920	3000	12*250	2V 600AH	24	AC110/230V	48V 5KW	48V 30A*3	9000-15000WH
SOL921	3500	16*218	2V 800AH	24	AC110/230V	48V 5KW	48V 30A*4	10500-17500WH
SOL922	4000	20*200	2V 1000AH	24	AC110/230V	48V 10KW	48V 30A*5	12000-20000WH
SOL923	5000	24*208	2V 1200AH	24	AC110/230V	48V 10KW	48V 30A*6	15000-25000WH
SOL924	6000	24*250	2V 750AH	48	AC110/230V	96V 10KW	48V 30A*6	18000-30000WH
SOL925	8000	40*200	2V 1000AH	48	AC110/230V	96V 10KW	48V 30A*6	24000-40000WH
SOL926	10000	40*208	2V 1000AH	48	AC110/230V	96V 15KW	48V 30A*12	30000-50000WH

SOBIOI TUV Cable

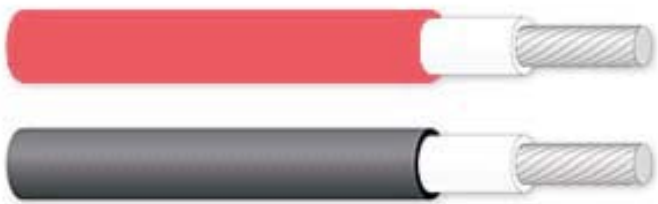


Main Features

- High performance, flexible solar cable
- TUV approval
- Halogen free
- Low smoke
- UV, ozone, and weather resistant
- 1.5, 2.5, 4, 6, 10, 16, or, 25mm2 size
- Temperature range: -40 to 90oC
- Rating Voltage : 600/1000V
- Jacket : 120°C XLPE , black or red

Cross area(mm2)	Construction	Conductor stranded OD(MM))	Cable OD(MM)	Max Resistance of conductor at 20°C (Ω/Km)	m/reel	kg/reel	Cbm/reel
1.5	30/0.25	1.58	4.8	13.7	500	21.3	0.021
2.5	49/0.25	2.02	5.35	8.21	500	27.5	0.021
4	56/0.3	2.6	6.1	5.09	500	37.7	0.031
6	84/0.3	3.42	7.15	3.39	500	51.2	0.038
10	84/0.4	4.56	9	1.95	300	48	0.033
16	128/0.4	5.6	10.2	1.21	200	48	0.033
25	196/0.4	6.95	12	0.795	150	53	0.033

SOBIO2 UL Cable

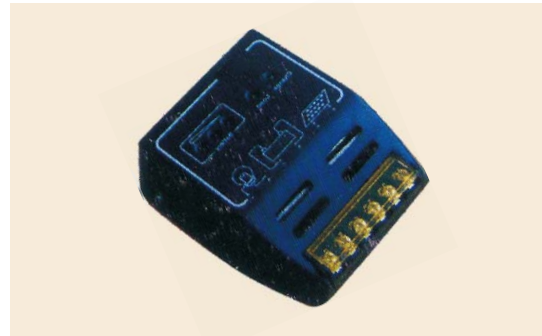


Main Features

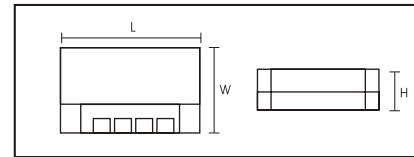
- High performance, flexible solar cable
- UL approval
- Halogen free
- Low smoke
- UV, ozone, and weather resistant
- 18, 16, 14, 12, 10AWG size
- Temperature range: -40 to 90oC
- Rating Voltage : 600
- Jacket : 120°C XLPE , black or red

Cross area(AWG)	Construction	Conductor stranded OD(MM))	Cable OD(MM)	Max Resistance of conductor at 20°C (Ω/Km)	m/reel	kg/reel	Cbm/reel
18	16/0.254	1.16	5.1	5.85	500	19.1	0.021
16	26/0.254	1.49	5.5	6.25	500	21.3	0.021
14	41/0.254	1.87	5.9	6.65	500	27.5	0.021
12	65/0.254	2.36	6.4	7.15	500	37.7	0.031
10	105/0.254	2.97	7.2	7.95	500	51.2	0.038

SOL9



Overload protection
Short circuit protection
Reverse current protection
Reverse polarity connection protection
Lighting protection
Over discharge protection
Overcharge protection
The thermal compensation
Temperature compensation:-3mv/cell°C
Wire area Max:6mm

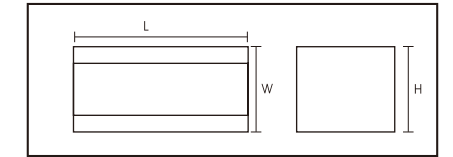


Model	Loading current Max	Full charge cut	Low Voltage cut	No load loss	Voltage drop	Size(LxWxH)	Packing (pcs/m ³ /Kg)
SOL9	≤6A	13.7V	10.5V~11V	≤20mA	<140mv	95x103x36mm	48/0.031/9
	≤12A	13.7V	10.5V~11V	≤20mA	<200mv	95x103x36mm	48/0.031/9

SOL13



Overload protection
Short circuit protection
Reverse polarity connection protection
Thermal protection
High voltage protection
Low battery protection
Input Voltage:10.5V~14V
Output Voltage:220V±5%
Output Frequency:50Hz~60Hz

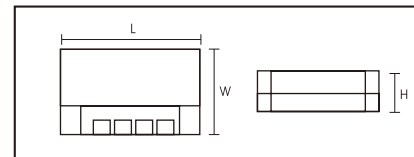


Model	Wattage	Max.Output Power	Output Current	THD	The half load efficiency	Size(LxWxH)	Packing (pcs/m ³ /Kg)
SOL13	200W	400W	<18A	1.4~1.9%	>85%	245x128x60mm	12/0.074/15
	400W	800W	<35A	1.4~1.9%	>85%	285x128x60mm	9/0.074/13
	600W	1200W	<53A	1.4~1.9%	>85%	320x128x60mm	9/0.074/16
	800W	1600W	<75A	3~3.5%	>88%	315x182x60mm	4/0.041/12
	1000W	2000W	<90A	3~3.5%	>88%	315x182x80mm	4/0.041/13

SOL10



Overload protection
Short circuit protection
Reverse current protection
Reverse polarity connection protection
Lighting protection
Over discharge protection
Overcharge protection
The thermal compensation
LCD data alternant display
Temperature compensation:-3mv/cell°C
Wire area Max:10mm

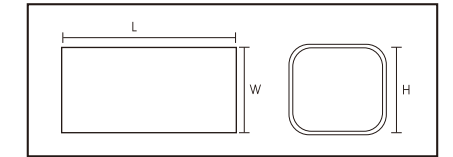


Model	Loading current Max	Full charge cut	Low Voltage cut	No load loss	Voltage drop	Size(LxWxH)	Packing (pcs/m ³ /Kg)
SOL10	≤16A	13.7V	10.5V	≤30mA	<200mv	150x140x45mm	24/0.030/11
	≤20A	13.7V	10.5V	≤30mA	<240mv	150x140x45mm	24/0.030/11
	≤24A	13.7V	10.5V	≤30mA	<280mv	150x140x45mm	24/0.030/11
	≤24A	13.7V	10.5V	≤30mA	<280mv	150x140x45mm	24/0.030/11

SOL14



Overload protection
Short circuit protection
Reverse connection protection
Thermal protection
Overcharge protection
Over discharge protection
Output Waveform:Modified Square Wave
Output Frequency:50Hz~60Hz

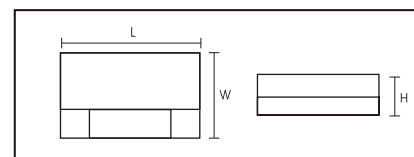


Model	Wattage	Input Voltage	Output Voltage	No load loss	Size(LxWxH)	Packing (pcs/m ³ /Kg)
SOL14	150W	12V	AC175~270V	≤1.5%	180x155x95mm	8/0.032/19
	180W	12V	AC175~270V	≤1.5%	180x155x95mm	8/0.032/20
	300W	12V	AC180~260V	≤1.5%	320x140x230mm	3/0.046/16
	600W	12V	AC185~255V	≤1.5%	370x235x365mm	3/0.046/20

SOL11



Overload protection
Short circuit protection
Reverse current protection
Reverse polarity connection protection
Lighting protection
Over discharge protection
Overcharge protection
Intelligentized the temperature compensation
Temperature compensation:-3mv/cell°C
Wire area Max:10mm



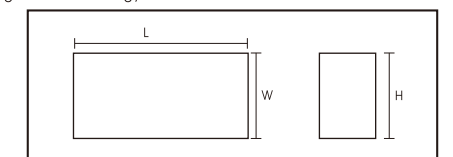
Model	Loading current Max	Full charge cut	Low Voltage cut	No load loss	Voltage drop	Size(LxWxH)	Packing (pcs/m ³ /Kg)
SOL11	≤16A	13.7V	10.5V	≤30mA	<200mv	200X148X55	16/0.042/12
	≤20A	13.7V	10.5V	≤30mA	<240mv	200X148X55	16/0.042/12
	≤24A	13.7V	10.5V	≤30mA	<280mv	200X148X55	16/0.042/12

SOL15



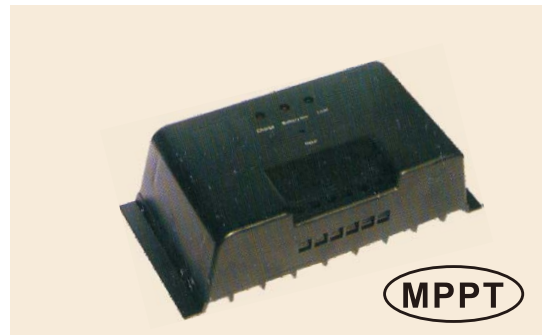
This series product designs to the storage battery refresh and turns on electricity the controller system, can protect the service life of the storage battery available, carrying out to refresh to go against to change the integral whole to turn, the customer need not assign the solar energy to refresh the controller.

Overload protection
Short circuit protection
Reverse polarity protection
Thermal protection
Over charge protection
Over discharge protection
Counter current stop
Output Waveform:Modified Square Wave
Output Frequency:50Hz~60Hz



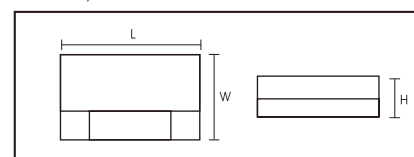
Model	Wattage	Input Voltage	Output Voltage	No load loss	Size(LxWxH)	Packing (pcs/m ³ /Kg)
SOL15	120W	12V	AC175~270V	≤1.5%	310x185x235mm	1/0.031/8
	150W	12V	AC175~270V	≤1.5%	310x185x235mm	1/0.031/8
	200W	12V	AC175~270V	≤1.5%	310x185x235mm	1/0.031/8
	300W	12V	AC180~260V	≤1.5%	310x185x235mm	1/0.031/8
	600W	12V	AC185~255V	≤1.5%	370x235x365mm	1/0.055/15

SOL12



The most important feature of this controller is intelligently tracking input voltage from solar panel, which could let solar panel always work at Maximum power point of V-A curve. Compared with normal solar charge controller, this MPPT controller could increase efficiency at 10%-30%.

Overload protection
Short circuit protection
Reverse current protection
Reverse polarity connection protection
Lighting protection
Over discharge protection
Overcharge protection
The thermal compensation
Temperature compensation:-3mv/cell°C
Wire area Max:10mm

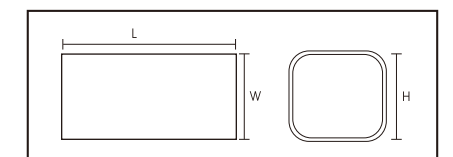


Model	Loading current Max	Full charge cut	Low Voltage cut	No load loss	Voltage drop	Size(LxWxH)	Packing (pcs/m ³ /Kg)
SOL12	≤16A	13.7V	10.5V	≤30mA	<200mv	188x90x58.5mm	24/0.040/15
	≤20A	13.7V	10.5V	≤30mA	<240mv	188x108x55mm	16/0.040/12
	≤24A	13.7V	10.5V	≤30mA	<280mv	188x108x55mm	16/0.040/12

SOL16



Overload protection
Short circuit protection
Reverse polarity protection
Thermal protection
Output Waveform:Modified Square Wave
Output Voltage:AC210~230V
Output Frequency:50Hz~60Hz



Model	Wattage	Input Voltage	No load loss	Size(LxWxH)	Packing (pcs/m ³ /Kg)
SOL16	600W	12V, 24V	≤1.5%	370x235x365mm	1/0.055/16
	1000W	24V	≤1.5%	355x235x395mm	1/0.062/20
	1500W	24V	≤1.5%	355x235x395mm	1/0.062/23



SOL36

Solar and wind energy storage battery

Typical applications include:

electric bicycle, electric scooters, electric disabled vehicles, electric tools and toys, electric golf cars, and so on.

Voltage	Capability(Ah)	L	W	H	H	Packing (pcs/m ³ /Kg)
12V	38	197	165	170	170	2/0.013/21
12V	50	260	134	200	200	1/0.013/14
12V	65	330	173	169	174	1/0.013/16
12V	80	330	173	217	222	1/0.013/18
12V	100	330	173	217	222	1/0.013/20
12V	120	405	173	210	239	1/0.015/21
12V	150	486	170	244	244	1/0.015/23
12V	200	522	240	218	243	1/0.015/25
12V	250	520	269	224	230	1/0.015/27
2V	200	172	112	332	351	1/0.015/29
2V	300	176	155	328	336	2/0.013/21
2V	400	210	175	338	338	1/0.013/14
2V	500	243	175	335	345	1/0.013/16
2V	600	301	175	335	345	1/0.013/18
2V	800	412	175	365	365	1/0.013/20
2V	1000	480	173.5	338	345	1/0.015/21
2V	1500	404	354	354	377	1/0.015/23
2V	2000	490	350	318	380	1/0.015/25
2V	3000	712	353	241	383	1/0.015/27



SOL37

Gel electrolyte VRLA battery

Typical applications include:

electric bicycle, electric scooters, electric disabled vehicles, electric tools and toys, electric golf cars, and so on.

Voltage	Capability(Ah)	L	W	H	H	Packing (pcs/m ³ /Kg)
12V	33	195	130	155	180	2/0.013/21
12V	38	197	165	170	170	1/0.013/14
12V	50	260	134	200	200	1/0.013/16
12V	65	330	173	169	174	1/0.013/18
12V	70	330	173	169	174	1/0.013/20
12V	85	330	173	217	222	1/0.015/21
12V	100	330	173	217	222	1/0.015/23
12V	120	405	173	210	239	1/0.015/25
12V	150	486	170	244	244	1/0.015/27
12V	200	522	240	218	243	1/0.015/29
2V	100	172	63	336	242	2/0.013/21
2V	150	172	85	322	342	1/0.013/14
2V	200	172	112	332	351	1/0.013/16
2V	300	176	155	328	336	1/0.013/18
2V	400	210	175	338	338	1/0.013/20
2V	500	243	175	335	345	1/0.015/21
2V	600	301	175	335	345	1/0.015/23
2V	800	412	175	365	365	1/0.015/25
2V	1000	480	173.5	335	345	1/0.015/27
2V	1200	480	173.5	338	345	1/0.015/29
2V	1500	404	354	354	377	1/0.015/31
2V	2000	490	350	318	380	1/0.015/33

SOL602



Main Features

- Max.system voltage:1000VDC
- Rated current:20A
- contact resistance of plug connectors:≤5mΩ
- Protection degree:IP65/IP2X
- Operating temperature:-40°C~+85°C
- Insulation material:PPO
- Contact material:Copper, silver plated
- Cable cross:4MM2
- Cable Length (with sol33/34connector):2*90CM(1 pair)

Model	Rated Voltage	Rated Current	Cable cross (mm2)	Packing(pcs/m3/kg)
SOL602	1000V	20A	4	50/0.041/16

SOL603



Main Features

- Max.system voltage:1000VDC
- Rated current:16A
- contact resistance of plug connectors:≤5mΩ
- Protection degree:IP65/IP2X
- Operating temperature:-40°C~+85°C
- Insulation material:PPO
- Contact material:Copper, silver plated
- Cable cross:4MM2
- Cable Length (with sol33/34connector):2*90CM(1 pair)

Model	Rated Voltage	Rated Current	Cable cross (mm2)	Packing(pcs/m3/kg)
SOL603	1000V	16A	4	50/0.041/16

SOL604



Main Features

- Max.system voltage:1000VDC
- Rated current:30A
- contact resistance of plug connectors:≤5mΩ
- Protection degree:IP65/IP2X
- Operating temperature:-40°C~+85°C
- Insulation material:PPO
- Contact material:Copper, silver plated
- cable cross:4MM2
- Cable Length (with sol33/34connector):2*90CM(1 pair)
- Junction box diode (10SQ050) Q'TY:6PCS

Model	Rated Voltage	Rated Current	Cable cross (mm2)	Packing(pcs/m3/kg)
SOL604	1000V	30A	4	50/0.074/17

SOL605



Main Features

- Max.system voltage:1000VDC
- Rated current:30A
- contact resistance of plug connectors: $\leq 5\text{m}\Omega$
- Protection degree:IP65/IP2X
- Operating temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Insulation material:PPO
- Contact material:Copper, silver plated
- cable cross:4MM²
- Cable Length (with sol33/34connector):2*90CM(1 pair)
- Junction box diode (10SQ050) Q'TY:3PCS

Model	Rated Voltage	Rated Current	Cable cross (mm ²)	Packing(pcs/m3/kg)
SOL605	1000V	30A	4	50/0.074/17

SOL606



Main Features

- Max.system voltage:1000VDC
- Rated current:16A
- contact resistance of plug connectors: $\leq 5\text{m}\Omega$
- Protection degree:IP65/IP2X
- Operating temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Insulation material:PPO
- Contact material:Copper, silver plated
- cable cross:4MM²
- Cable Length (with sol33/34connector):2*90CM(1 pair)
- Junction box diode (10SQ050) Q'TY:3PCS

Model	Rated Voltage	Rated Current	Cable cross (mm ²)	Packing(pcs/m3/kg)
SOL606	1000V	16A	4	50/0.048/15.2

SOL607



Main Features

- Max.system voltage:1000VDC
- Rated current:10A
- contact resistance of plug connectors: $\leq 5\text{m}\Omega$
- Protection degree:IP65/IP2X
- Operating temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Insulation material:PPO
- Contact material:Copper, silver plated
- cable cross:4MM²
- Cable Length (with sol33/34connector):2*90CM(1 pair)
- Junction box diode (10SQ050) Q'TY:1PC

Model	Rated Voltage	Rated Current	Cable cross (mm ²)	Packing(pcs/m3/kg)
SOL607	1000V	10A	4	100/0.04/15

SOL35

