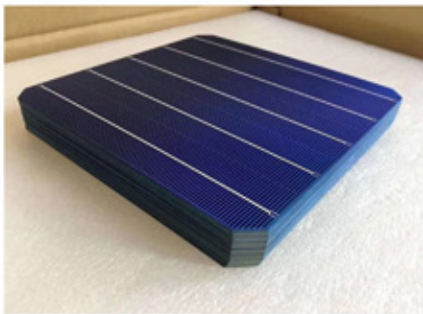
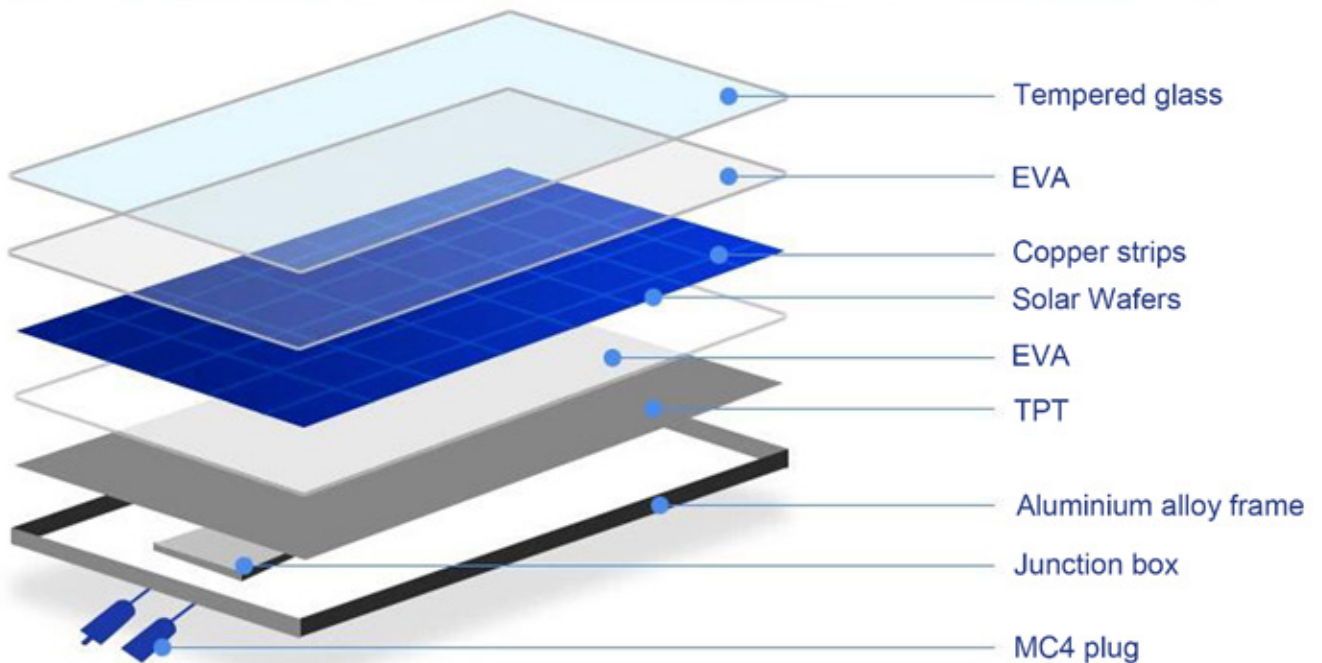


Solar panel structure

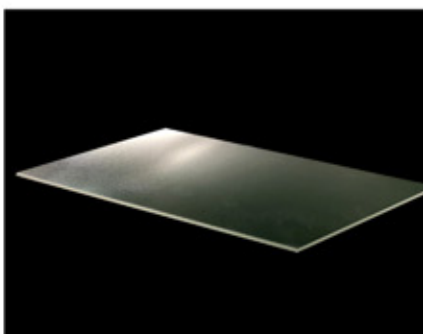


Junction Box

- * IP67 Waterproof level
- * Quality diode ensures module running safety
- * Excellent heat dissipation performance
- * Long service life

SOLAR CELLS

- *Module efficiency up to 18% achieved through advanced cell technology and manufacturing capabilities
- *Solar sorting ensure consistent appearance on each module
- *High efficiency PV cells
- *High PID resistant



High light transmission tempered

- * Antireflective glass
- * Translucency of normal luminance is increased by 2%
- * Self-cleaning function
- * Module efficiency is increased by 2%



Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500V DC(IEC) 1000V DC(UL)
Maximum Series Fuse Rating	20A
Power Tolerance	0/+5W

Temperature Characteristics

Nominal Operating Cell Temperature (NocT)	45±2°C
Temperature Coefficient of Pmax	-0.40%/°C
Temperature Coefficient of Voc	-0.31%/°C
Temperature Coefficient of Isc	0.05%/°C

MONO

STC	XHGD-M300	XHGD-M310	XHGD-M320	XHGD-M330	XHGD-M350
Maximum Power (Pmax)	300w	310w	320w	330w	350w
Open Circuit Voltage (Voc)	43.2v	43.2v	43.35v	43.5v	43.38v
Short Circuit Current (Isc)	9A	9.27	9.57A	9.84A	10.41A
Voltage at Maximum Power (Vmppt)	36v	36.1v	36.1v	36.21v	36.28v
Current at Maximum Power (Imppt)	8.33A	8.58A	8.86A	9.11A	9.65A
Module Efficiency(%)	17.12%	17.98%	18.83%	19.68%	20.54%

POLY

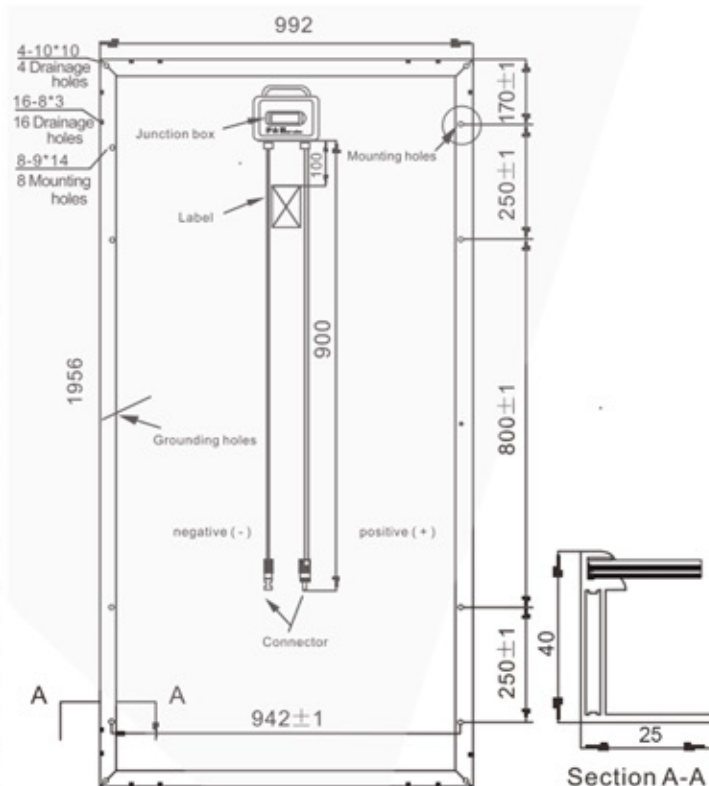
STC	XHGD-P300	XHGD-P305	XHGD-P310	XHGD-P315	XHGD-P320
Maximum Power (Pmax)	300W	305W	310W	315W	320W
Open Circuit Voltage (Voc)	43.2V	43.2V	43.32V	43.32V	43.32V
Short Circuit Current (Isc)	9A	9.15A	9.27A	9.43A	9.57A
Voltage at Maximum Power (Vmppt)	36V	36V	36.1V	36.1V	36.1V
Current at Maximum Power (Imppt)	5.56A	8.47A	8.58A	8.73A	8.86A
Module Efficiency(%)	17.12%	17.55%	17.98%	18.4%	18.83%

Packing Configuration

Container	20'GP	40'GP
Pieces per pallet	30	30
Pallets per container	10	24
Pieces per container	300	720

Mechanical Characteristics

Solar Cell	Mono/Poly
No. of Cells	72(6×12)
Dimensions	1956x992x40mm
Weight	23.0kgs
Front	Glass 3.2mm tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67/IP68 rated(3 by pass diodes)
Output Cables	4.0mm ² , symmetrical length (-)900mm and (+)900mm
Connectors	MC4 compatible
Mechanical load test	5400Pa



60 CELLS



Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500V DC(IEC) 1000V DC(UL)
Maximum Series Fuse Rating	20A
Power Tolerance	0/+5W

Temperature Characteristics

Nominal Operating Cell Temperature (Noct)	45±2°C
Temperature Coefficient of Pmax	-0.40%/°C
Temperature Coefficient of Voc	-0.31%/°C
Temperature Coefficient of Isc	0.05%/°C

MONO

STC	XHGD-290M	XHGD-295M	XHGD-300M	XHGD-305M	XHGD-310M
Maximum Power (Pmax)	290W	295W	300W	305W	310W
Open Circuit Voltage (Voc)	38.87V	39.16V	39.42V	39.74V	40.00V
Short Circuit Current (Isc)	9.63A	9.70A	9.77A	9.84A	9.91A
Voltage at Maximum Power (Vmp)	31.69V	32.01V	32.33V	32.62V	32.93V
Current at Maximum Power (Imp)	9.15A	9.22A	9.28A	9.35A	9.41A
Module Efficiency(%)	17.83%	18.13%	18.44%	18.75%	19.05%

POLY

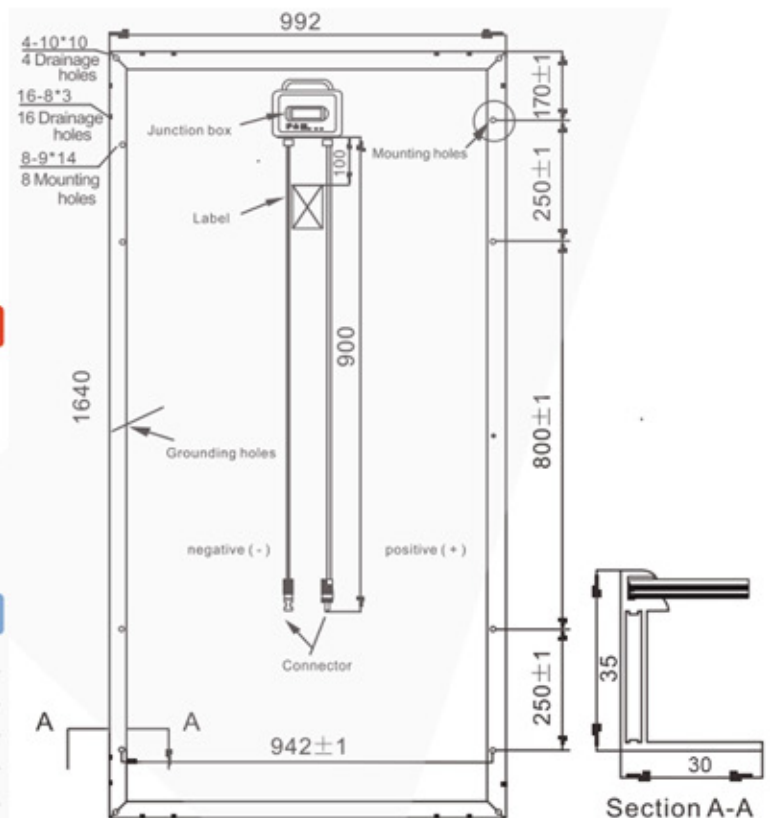
STC	XHGD-265P	XHGD-270P	XHGD-275P	XHGD-280P	XHGD-285P
Maximum Power (Pmax)	265W	270W	275W	280W	285W
Open Circuit Voltage (Voc)	37.54V	37.89V	38.19V	38.55V	38.86V
Short Circuit Current (Isc)	9.16A	9.24A	9.32A	9.39A	9.47A
Voltage at Maximum Power (Vmp)	30.83V	31.11V	31.36V	31.64V	31.89V
Current at Maximum Power (Imp)	8.60A	8.68A	8.77A	8.85A	8.94A
Module Efficiency(%)	16.29%	16.60%	16.90%	17.21%	17.52%

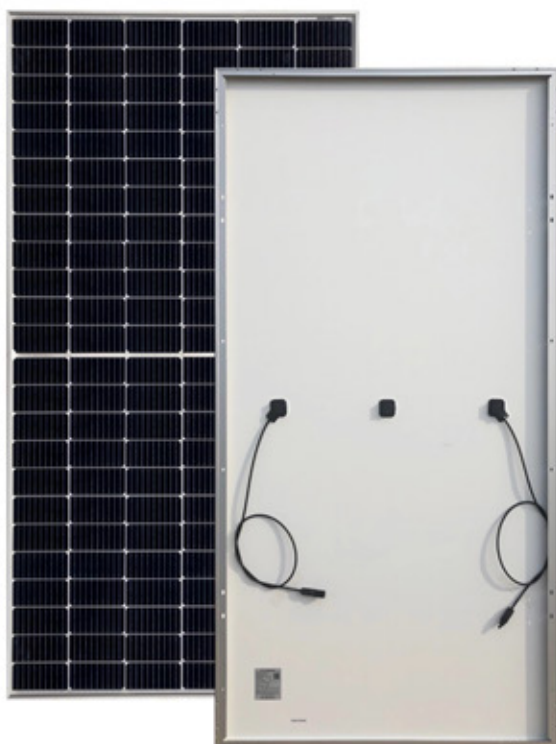
Packing Configuration

Container	20'GP	40'GP
Pieces per pallet	30	30
Pallets per container	12	28
Pieces per container	360	840

Mechanical Characteristics

Solar Cell	Mono/Poly
No. of Cells	60(6×10)
Dimensions	1640x992x35mm
Weight	20.0kgs
Front	Glass 3.2mm tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67/IP68 rated(3 by pass diodes) 4.0mm ² ,
Output Cables	symmetrical length (-)900mm and (+)900mm
Connectors	MC4 compatible
Mechanical load test	5400Pa





MONO

STC

	XHGD-M435	XHGD-M440	XHGD-M445	XHGD-M450	XHGD-M455
Maximum Power (Pmax)	435w	440w	445w	450w	455w
Open Circuit Voltage (Voc)	48.57v	48.72v	48.87v	49.02v	49.17v
Short Circuit Current (Isc)	11.52A	11.67A	11.82A	11.97A	12.12A
Voltage at Maximum Power (Vmp)	40.32v	40.48v	40.64v	40.8v	40.95v
Current at Maximum Power (Imp)	10.79A	10.87	10.95A	11.03A	11.11A
Module Efficiency(%)	20.0%	20.2%	20.5%	20.7%	20.9%

Operating Module Temperature -40°C to +85°C

Maximum System Voltage 1500V DC(IEC)
1000V DC(UL)

Maximum Series Fuse Rating 20A

Power Tolerance 0/+5W

Temperature Characteristics

Nominal Operating Cell Temperature (Noct) 45±2°C

Temperature Coefficient of Pmax -0.40%/°C

Temperature Coefficient of Voc -0.31%/°C

Temperature Coefficient of Isc 0.05%/°C

Mechanical Characteristics

Solar Cell Mono

No.of Cells 144Cells

Dimensions 2094*1038*35mm

Weight 23.5KG

Front Glass 3.2mm tempered glass

Frame Anodized aluminium alloy

Junction Box IP67/IP68 rated(3 by pass diodes)

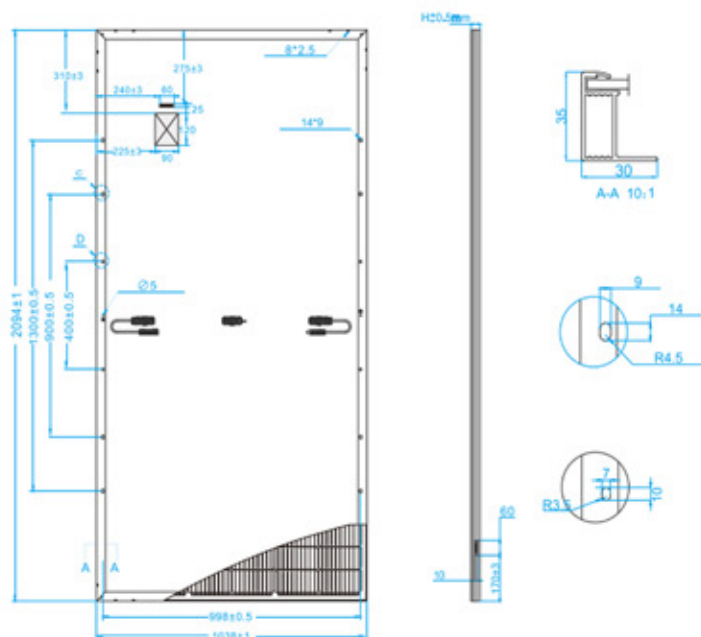
4.0mm² ,

Output Cables symmetrical length

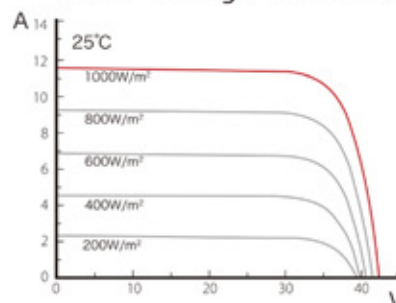
4mm²(EU)/12AWG(US)*300mm

Connectors MC4 compatible

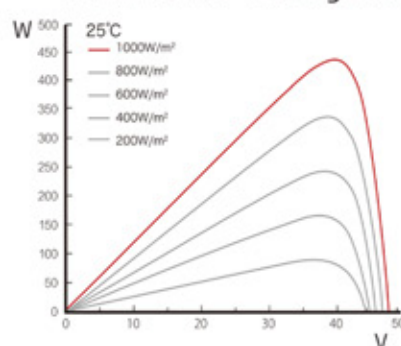
Mechanical load test 5400Pa



440w Voltage- current curve



440w Power -voltage curve

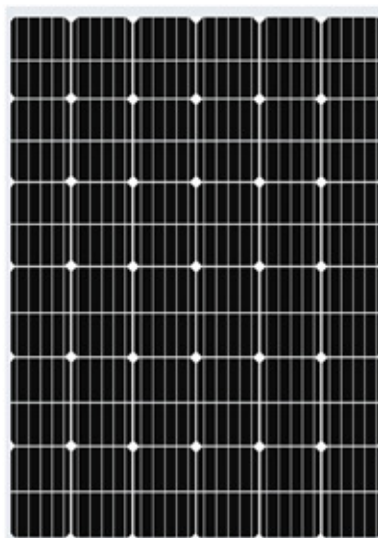


1580*808*35mm



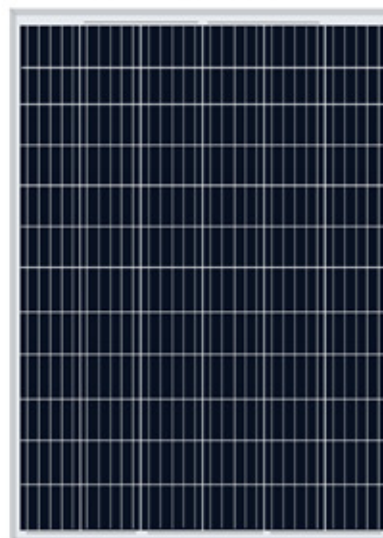
MONO

1330*992*35mm

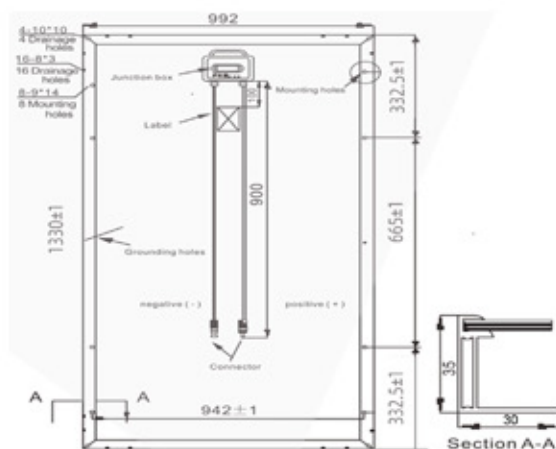
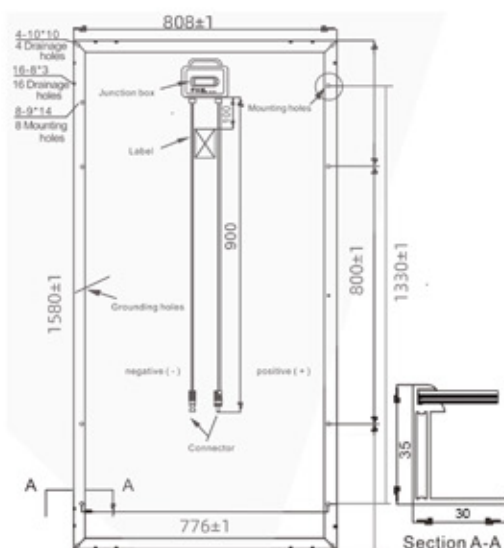


MONO

1330*992*35mm



POLY



MONO

STC

	XHGD-M200	XHGD-M210	XHGD-M220	XHGD-M230	XHGD-M240
Maximum Power (Pmax)	200w	210w	220w	230w	240w
Open Circuit Voltage (Voc)	43.2v	43.2v	43.35v	43.5v	43.38v
Short Circuit Current (IsC)	6A	6.28A	6.58A	6.86A	7.14A
Voltage at Maximum Power (Vmp)	36v	36.1v	36.1v	36.21v	36.28v
Current at Maximum Power (Impp)	5.56A	5.82A	6.1A	6.35A	6.61A
Module Efficiency(%)	17.12%	17.98%	18.83%	19.68%	20.54%

POLY

STC

	XHGD-P200	XHGD-P205	XHGD-P210	XHGD-P215	XHGD-P220
Maximum Power (Pmax)	200w	205w	210w	215w	220w
Open Circuit Voltage (Voc)	43.2V	43.2V	43.32V	43.32V	43.32V
Short Circuit Current (IsC)	6A	6.15A	6.28A	6.43A	6.58A
Voltage at Maximum Power (Vmp)	36V	36V	36.1V	36.1V	36.1V
Current at Maximum Power (Impp)	5.56A	5.7A	5.82A	5.96A	6.1A
Module Efficiency(%)	17.12%	17.55%	17.98%	18.4%	18.83%

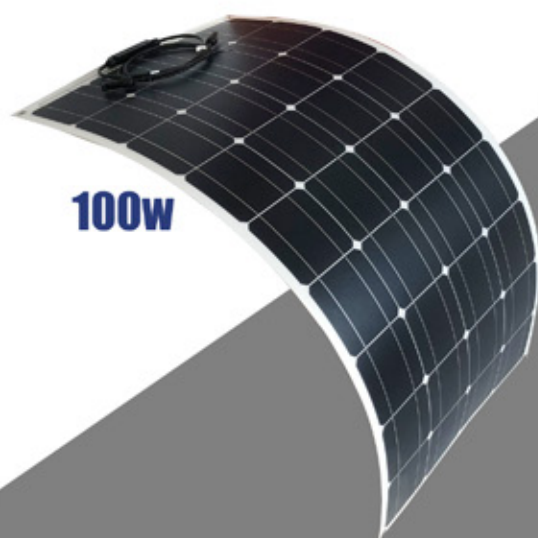
Mechanical Characteristics

Solar Cell	Mono/Poly
No.of Cells	72Cells
Dimensions	1330*992*35 or 1580*808*35mm
Weight	14KG
Front	Glass 3.2mm tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67/IP68 rated(3 by pass diodes)
Output Cables	4.0mm ² , symmetrical length (-)900mm and (+)900mm
Connectors	MC4 compatible
Mechanical load test	5400Pa

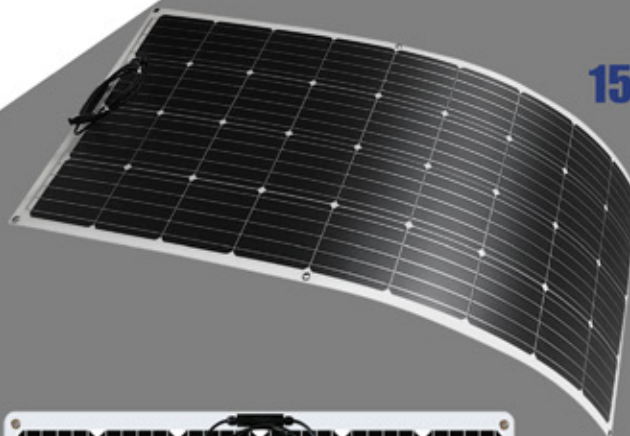
SOLAR PANELS

Flexible Product

Support customization



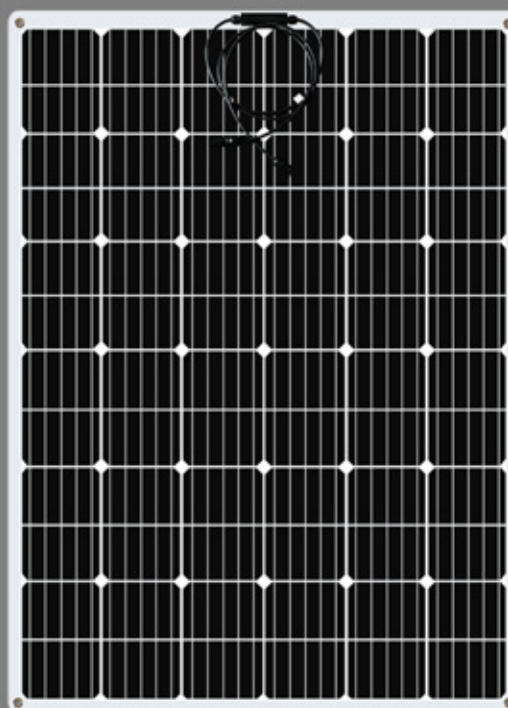
100W



150W



20W



200W

Product name	Power	V _{mp}	I _{mp}	Product Size(mm)	QTY/CTN	CTN Size(cm)	Weight(KG)
XHGD-F20	20W	18V	1.11A	420*280*2.5	10	44*41*30	9
XHGD-F50	50W	18V	2.77A	700*510*2.5	5	72*17*54	9
XHGD-F100	100W	18V	5.55A	1200*540*2.5	5	126*21*31	14
XHGD-F120	120W	18V	6.66A	1200*680*2.5	5	126*21*72	16
XHGD-F150	150W	18V	8.33A	1480*680*2.5	5	154*22*74	20.5
XHGD-F200	200W	36V	5.55A	1330*992*2.5	5	135*22*102	23



All black solar panel series

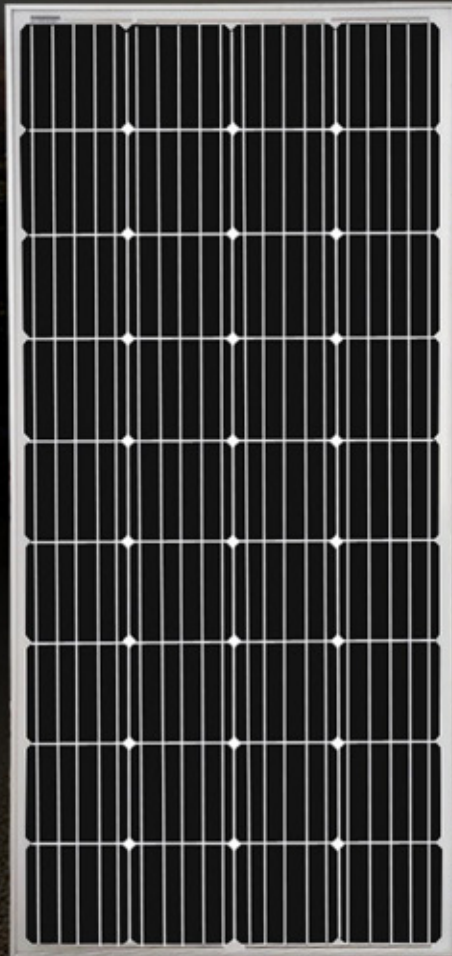


**Twelve years of professional production factory,
support customized a variety of specifications
and sizes of all black solar panel series.**

5 watt-350 watt

SOLAR PANELS

Size:1480*680*35mm

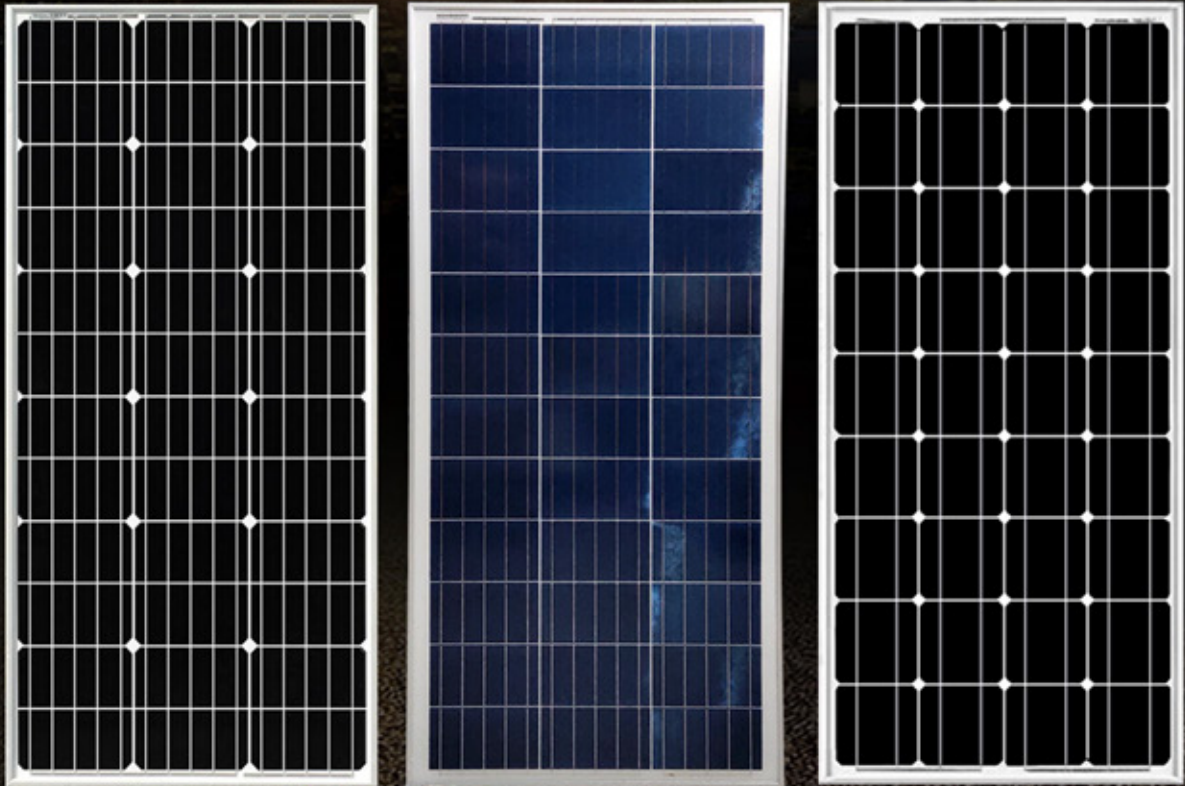


MONO	POLY			
STC	XHGD-M150/P150	XHGD-M160/P160	XHGD-M170/P170	XHGD-M180/P180
Maximum Power (Pmax)	150w	160w	170w	180w
Open Circuit Voltage (Voe)	21.6v	21.6V	21.8V	21.9V
Short Circuit Current (Isc)	8.99A	9.6A	10.19A	10.8A
Voltage at Maximum Power (Vmpp)	18v	18v	18.1	18.2
Current at Maximum Power (Impp)	8.33A	8.89A	9.44A	10A
Module Efficiency(%)	17.12%	17.98%	18.83%	19.68%

SOLAR PANELS

Monocrystalline/Polycrystalline

100w/12v



Panel size:1200*540*30mm

Pmax:100w

Module efficiency:17.3%

Voe:21.6v

Output Cables:900mm*2.5mm²

Isc:6A

G.W.:37KG

Vmp:18v

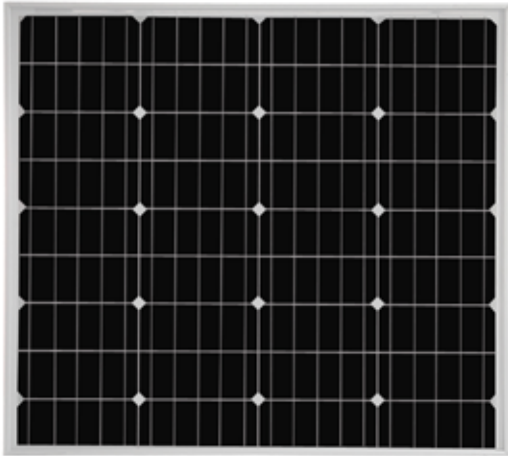
QTY/CTN:5pcs

Imp:5.55A

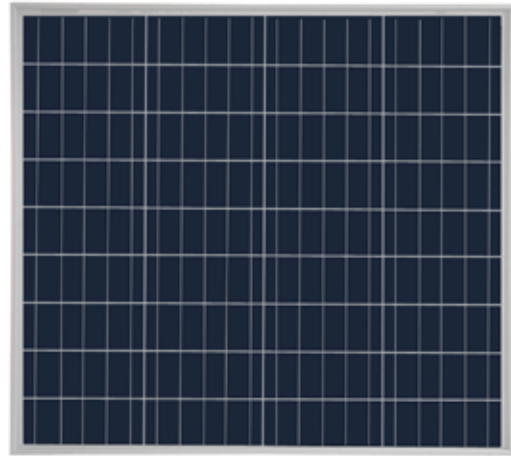
Packing Size:122*56*56cm

Solar panel series

Monocrystalline/Polycrystalline



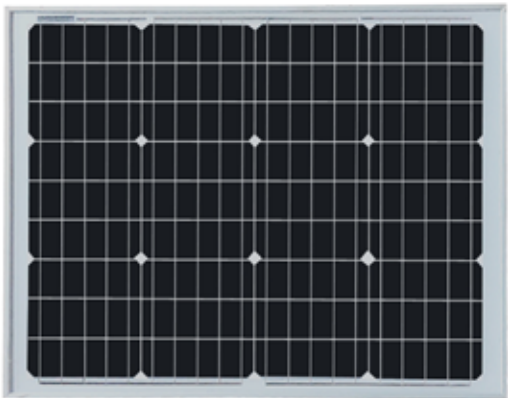
Mono 60w



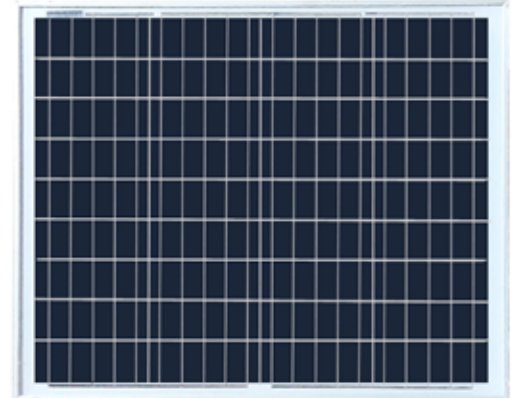
Poly 60w

Panel Size:670*620*30mm

Pmax:60 w	Module Efficiency:
Voe:21.6v	Output Cable:900mm*2.5mm ²
Isc:3.6A	G.W.:30KG
Vmp:18v	QTY/CTN:5PCS
Imp:3.33A	Packing Size:69*20*64cm



Mono 50w



Poly 50w

Panel Size:700*540*30mm

Pmax:50 w	Module Efficiency:17.2%
Voe:21.6v	Output Cable:900mm*2.5mm ²
Isc:3.0A	G.W.:23KG
Vmp:18v	QTY/CTN:5PCS
Imp:2.78A	Packing Size:72*20*56cm

XH-Solar

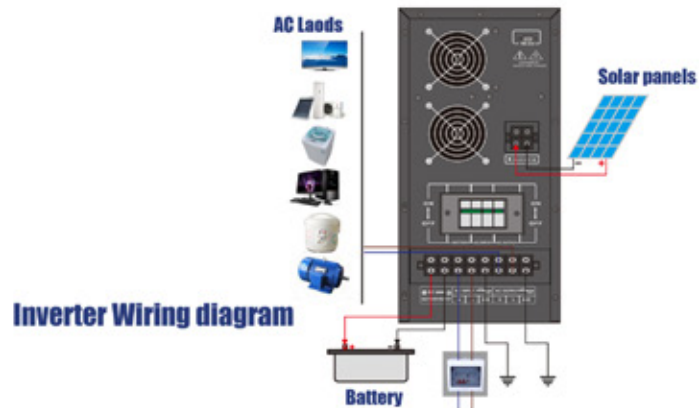
Panels Specification parameters series

Product name	Panel Size (mm)	Packing Size (L*W*H/cm)	QTY/CTN	CTN (G.W)	V _{mp}	I _{mp}	V _{oc}	I _{sc}
10W12V M/P	300*280*17	32*37*30cm	20PCS	20kg	18.5V	0.54A	22.2V	0.58A
15W12V M/P	430*300*17	45*26*32cm	10PCS	16kg	18.1V	0.82A	21.6V	0.88A
20W12V M/P	460*350*17	48*26*37cm	10PCS	19kg	18.5V	1.08A	22.2V	1.16A
25W12V M/P	540*350*20	56*29*37cm	10PCS	23kg	18.1V	1.38A	21.6V	1.49A
30W12V M/P	640*350*25	66*17.5*37cm	5PCS	14kg	18.1V	1.65A	21.6V	1.78A
40W12V M/P	670*420*25	69*20*44cm	5PCS	18kg	18.5V	2.16A	22.2V	2.33A
50W12V M/P	700*540*30	72*20*56cm	5PCS	20kg	18.1V	2.76A	21.6V	2.98A
60W12V M/P	830*540*30	85*20*56cm	5PCS	24kg	18.1V	3.31A	21.6V	3.58A
80W12V M/P	780*666*30	80*20*68.5cm	5PCS	30kg	18.1V	4.14A	21.6V	4.47A
	1000*510*30	102*20*53cm	5PCS	30kg	18.1V	4.14A	21.6V	4.47A
100W12V M/P	1200*540*30	122*20*56cm	5PCS	37kg	18.0V	5.5A	21.6V	5.96A
120W12V M/P	1200*670*35	122*14*69cm	3PCS	27kg	18.1V	6.62A	21.6V	7.16A
150W12V M/P	1480*680*35	150*9.5*70cm	2PCS	22kg	18.0V	8.3A	21.6V	8.95A
160W12V M/P	1480*680*35	150*9.5*70cm	2PCS	22kg	18.0V	8.89A	21.6V	9.6A
170W12V M	1480*680*35	150*9.5*70cm	2PCS	22kg	18.1V	9.39A	21.6V	10.1A
180W12V M	1480*680*35	150*9.5*70cm	2PCS	22kg	18.1V	9.94A	21.6V	10.73A
200W24V M/P	1580*808*35	160*9.5*83cm	2PCS	30kg	36.0V	5.5A	43.6V	5.96A
210W24V M/P	1580*808*35	160*9.5*83cm	2PCS	30kg	36.0V	5.83A	43.6V	6.29A
220W24V M/P	1580*808*35	160*9.5*83cm	2PCS	30kg	36.1V	6.09A	43.6V	6.58A
230W24V M	1580*808*35	160*9.5*83cm	2PCS	30kg	36.2V	6.35A	43.6V	6.85A
240W24V M	1580*808*35	160*9.5*83cm	2PCS	30kg	36.4V	6.59A	43.6V	7.11A
250W24V M/P	1640*992*40	166*10*101cm	2PCS	34kg	30.0V	8.3A	36.2V	8.96A
260W24V M/P	1640*992*40	166*10*101cm	2PCS	34kg	30.2V	8.6A	36.5V	9.28A
270W24V M	1640*992*40	166*10*101cm	2PCS	34kg	30.4V	8.88A	36.7V	9.56A
280W24V M	1640*992*40	166*10*101cm	2PCS	34kg	30.6V	9.15A	36.9V	9.88A
290W24V M	1640*992*40	166*10*101cm	2PCS	34kg	30.8V	9.41A	37.1V	10.16A
300W24V M/P	1950*992*40	197*10*101cm	2PCS	44kg	36.0V	8.3A	43.6V	8.94A
310W24V M/P	1950*992*40	197*10*101cm	2PCS	44kg	36.0V	8.61A	43.6V	9.3A
320W24V M/P	1950*992*40	197*10*101cm	2PCS	44kg	36.0V	8.89A	43.6V	9.6A
330W24V M	1950*992*40	197*10*101cm	2PCS	44kg	36.1V	9.14A	46.8V	9.87A
340W24V M	1950*992*40	197*10*101cm	2PCS	44kg	36.3V	9.37A	47V	10.11A
350W24V M	1950*992*40	197*10*101cm	2PCS	44kg	36.5V	9.59A	47.1V	10.35A
360W24V M	1950*992*40	197*10*101cm	2PCS	44kg	36.8V	9.78A	47.4V	10.56A

The above parameters and specifications are for reference only, and support customized power and voltage of various sizes

Solar Inverter Charger

PV Off-grid inverter

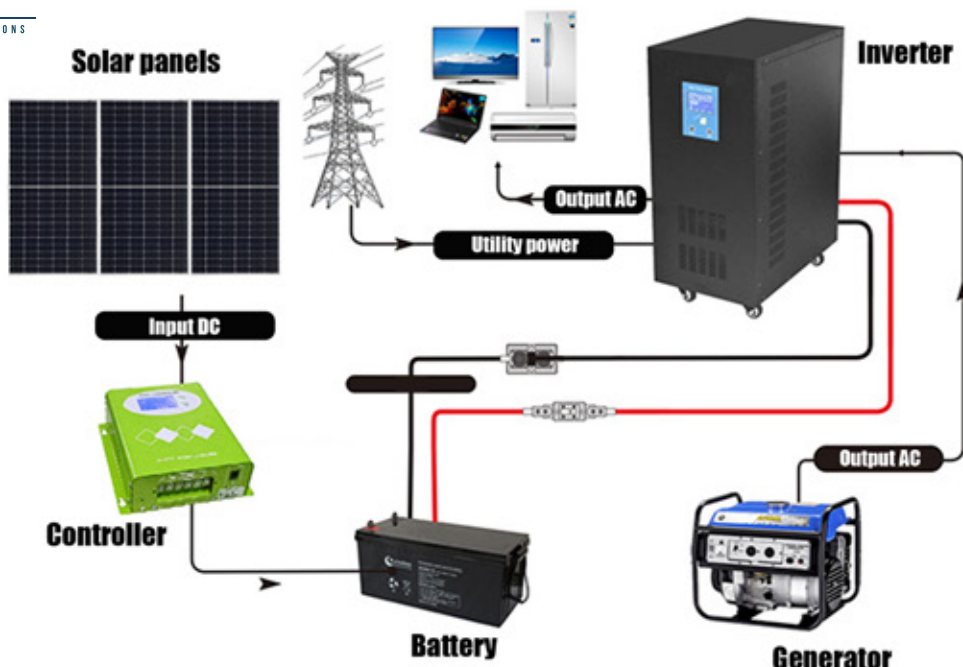


PV grid connected inverter

3KW~30KW



Inverter



Specification												
Model: NB		35112/24	50112/24	70124	70112	10212/24	15224/48	20248	20224	30224/48	40248/96	
Rated Power		350W	500W	700W	700W	1000W	1500W	2000W	2000W	3000W	4000W	
Battery Voltage		12V/24V		24V	12V	12V/24V	24V/48V	48V	24V	24V/48V	48V/96V	
Inside Solar controller(Optional)		10A~30A(PWM)				10A~60A(PWM or MPPT)						
Size(L*W*Hmm)		335*210*122				410*143*210		400*180*320		420*208*348		460*245*445
Packing Size(L*W*Hmm)		385*270*185				460*200*270		460*240*380		490*300*400		530*310*550
N.W.(kg)		6.5	8	10	11	13	18	21	23	29	46	
G.W.(kg) (Carton Packing)		7.5	9	11	12	14	19	22	24	30	48	
Specification												
Model: NB		50248/96	60248/96	70296/192	10396/192	12396/192	153192/240	203192/240	253240	303240	403384	
Rated Power		5000W	6000W	7000W	10KW	12KW	15KW	20KW	25KW	30KW	40KW	
Battery Voltage		48V/96V		96V/192V	96V/192V	96V/192V	192V/240V	192V/240V	240V	240V	384V	
Inside Solar controller(Optional)		10A~60A(PWM or MPPT)				50A/100A(PWM)					50A/100A/150A/200A(PWM)	
Size(L*W*Hmm)		460*245*445				485*300*646		600*300*800			720*435*1120	
Packing Size(L*W*Hmm)		530*310*550				550*365*785		665*365*830			790*505*1260	
N.W.(kg)		52	53	62	66	102	108	113	119	135	160	
G.W.(kg) (Wooden Packing)		58	59	72	77	115	121	130	136	150	180	
Parameter												
Input	Voltage Range	73VAC~138VAC / 145VAC~275VAC(350W~7000W); 98VAC~125VAC / 195VAC~250VAC(8KW~40KW)										
	Frequency Range	45Hz~64Hz										
Output	Voltage Range	110VAC±2% / 220VAC±2% / (Battery Mode)										
	Frequency Range	50Hz±0.5 or 60Hz±0.5										
Output Wave		Pure Sine Wave										
Total Harmonic Distortion		≤3%										
Transfer Time		≤4ms										
Efficiency		≥85%										
Working Mode		Battery First/AC First/Saving Energy Mode										
AC Charging current		Max 15A										
Inside Solar controller (Optional)	Charging Mode	PWM or MPPT										
	Charging current	12V/24V/48V System: 10A,20A,30A,40A,50A,60A; 96V/192V/240V/384 System: 50A,100A,150A,200A										
	PV Input Voltage Range	12V System: 15V~44V; 24V System: 30V~44V; 48V System: 60V~88V; 96V System: 120V~176V; 192V System: 240V~352V; 240V System: 300V~440V; 384V System: 480V~704V										
	Max PV Input Voltage (At 25°C)	12V/24V System: 50V; 48V System: 100V; 96V System: 200V; 192V System: 400V; 240V System: 500V; 384V System: 750V										
	PV Array Maximum Power	12V System: 140W,280W,420W,560W,700W,840W; 24V System: 280W,360W,840W,1120W,1400W,1680W; 48V System: 560W,1120W,1680W,1120W,2240W,3360W; 96V System: 5.6KW,11.2KW,8.4KW*2,11.2KW*2; 192V System: 11.2KW,22.4KW,16.8KW*2,22.4KW*2; 240V System: 14KW,28KW,21KW*2,28KW*2; 384V System: 22.4KW,44.8KW,33.6KW*2,44.8KW*2										
Battery Type		According to Customer Requirements										
Display		LCD										
Thermal method		Cooling fan in intelligent control										
Communication		RS232 (Optional)										
Protection	Over-load	Overload exceeds 110%, automatic shutdown in 30 secs; Overload exceeds 120%, automatic shutdown in 2 secs										
	Short circuit	Output short-circuit, automatic shutdown after keeping sound 20 secs										
	Battery	High or low voltage protection										
	Reverse Polarity	Reverse Polarity protection (Optional)										
Environment	Noise	≤55dB										
	Temperature	-10°C~40°C										
	Humidity	0%~95% (No condense)										
Alarm	A	Under normal working situation, buzzer without alarm sound										
	B	When battery are fault or under overload protection, buzzer keeping sound 4 times each second										
	C	When inverter starts in normal situation, buzzer reminds 5 times										

Solar Charge Controller

10A/20A/30A/40A/50A

12v/24v/48v



DIMEX
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AMG Battery series

50AH12v/60AH12v/80AH12v/100AH12v/150AH12v
/200AH12v/250AH12v

DIMEX
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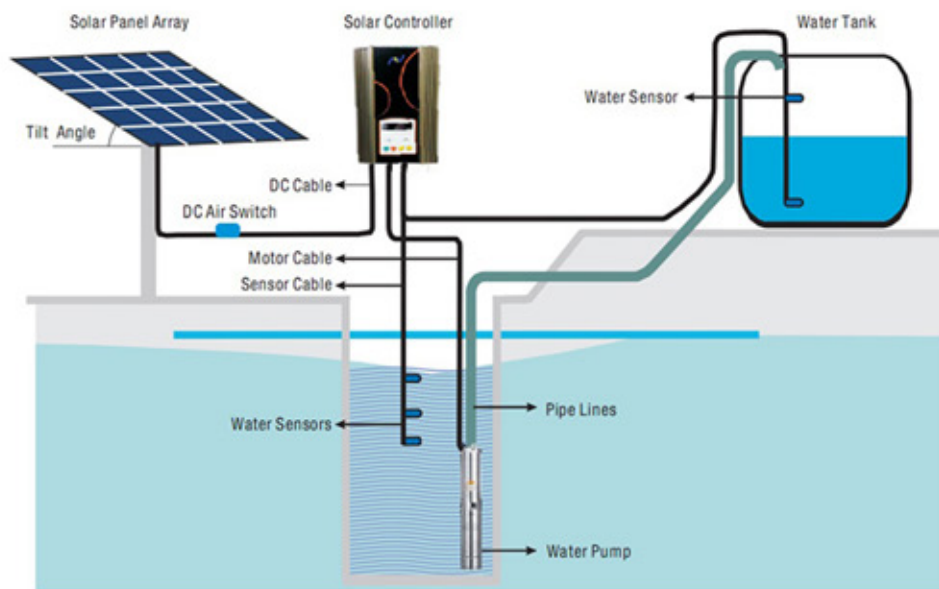
Model	Ratedvltage	Rated capacity (AH)	Size			
			L (mm)	W (mm)	H (mm)	TH (mm)
6-CNFJ-38	12	38	197	165	175	175
6-CNFJ-50	12	50	263	165	169	169
6-CNFJ-100	12	100	331	172	215	218
6-CNFJ-150	12	150	481	170	238	238
6-CNFJ-200	12	200	521	240	220	220
6-CNFJ-250	12	250	520	271	220	225



Solar submersible pump series

Model	Impeller	voltage	Pump Power (W)	Max Flow	Max Head (M)	Outlet (IN)	Outer Diameter (MM)	Solar panel power (w)
► 3" DC brushness solar screw pump with metal controller box								
3ZS1.8/80-D24/210	Screw	24	210	1.8	80	3/4"	76*460	300
3ZS1.8/100-D24/270	Screw	24	270	1.8	100	3/4"	76*460	400
3ZS1.8/120-D48/500	Screw	48	500	1.8	120	3/4"	76*460	800
3ZS2.1/120-D48/550	Screw	48	550	2.1	120	3/4"	76*460	800
3ZS2.3/120-D72/900	Screw	72	900	2.3	120	3/4"	76*460	1200
► 3" DC brushness screw pump with metal controller box								
3ZST1.8/80-D24/210	Screw	24	210	1.8	80	3/4"	76*460	300
3ZST1.8/100-D24/270	Screw	24	270	1.8	100	3/4"	76*460	400
3ZST1.8/120-D48/500	Screw	48	500	1.8	120	3/4"	76*460	800
3ZST2.1/120-D48/550	Screw	48	550	2.1	120	3/4"	76*460	800
3ZST2.3/120-D72/900	Screw	72	900	2.3	120	3/4"	76*460	1200
► 4" DC brushness screw pump with metal controller box								
4ZS2.1/50-D24/270	Screw	24	270	2.1	50	1"	100*480	400
4ZS2.5/80-D48/500	Screw	48	500	2.5	80	1"	100*480	800
4ZS3.0/60-D48/500	Screw	48	500	3.0	60	1"	100*480	800
4ZS3.6/80-D48/750	Screw	48	750	3.6	80	1"	100*480	1000
4ZS4.2/110-D72/1300	Screw	72	1300	4.2	110	1"	100*550	1800





solar water pump

