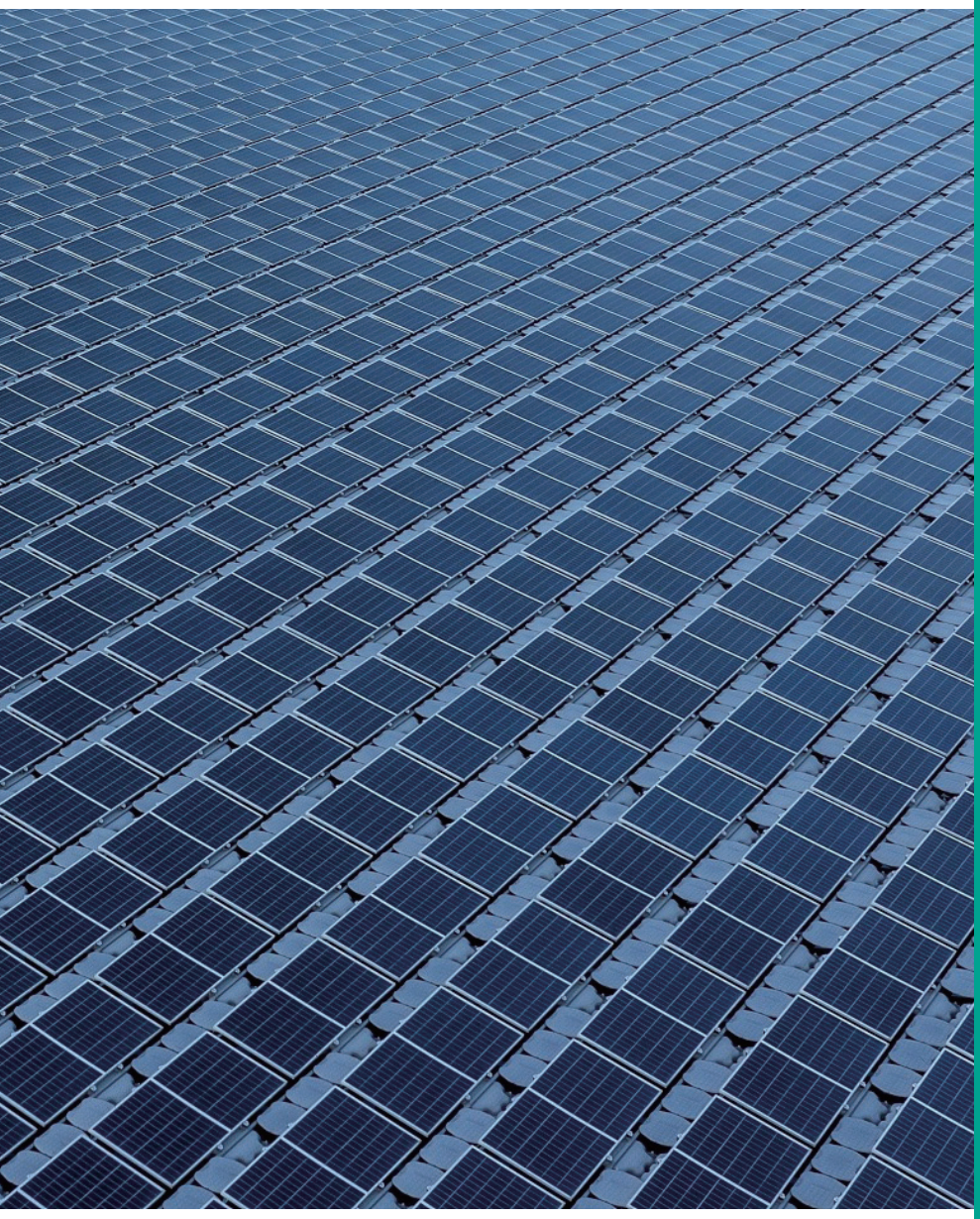
SOLAR
PRODUCT



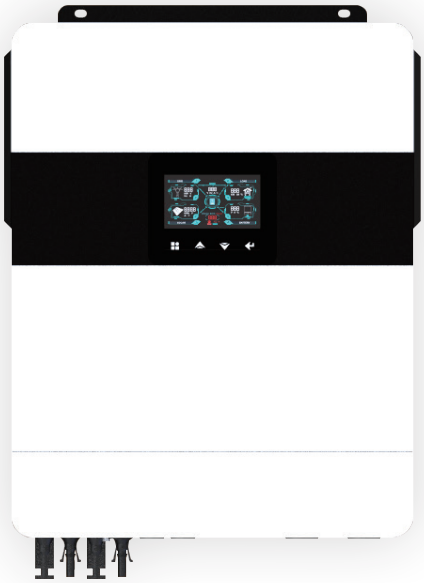
SOLAR SYSTEM
PRODUCT CATALOGUE

Dedicated to solar energy over 20 years

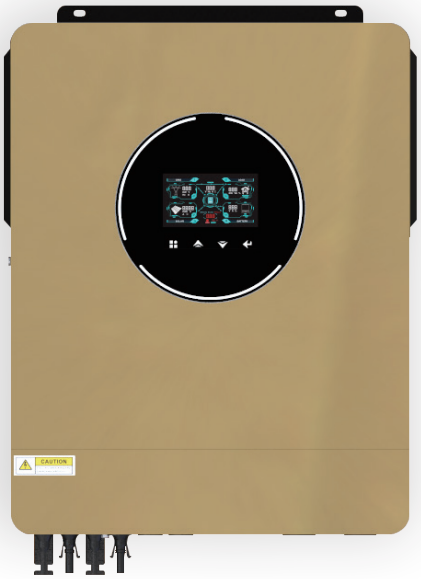
SOLAR SYSTEM

CONTENTS

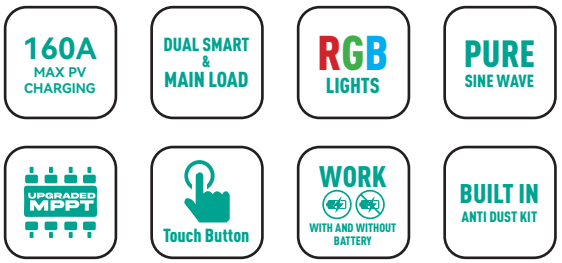
SH-10.2K SERIES

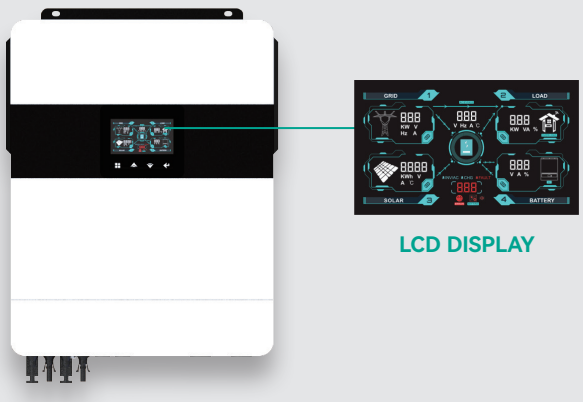


SC-10.2K SERIES



- Pure sine wave solar inverter (ON/OFF Grid)
- Output power factor 1.0
- WIFI&GPRS available for iOS and Android
- Inverter can run without battery
- One-key restoration to factory Settings
- Built-in Lithium battery automatic activation
- Built-in 160A MPPT Solar charge controller
- High PV input voltage range (90~500VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Dual output
- Touch button



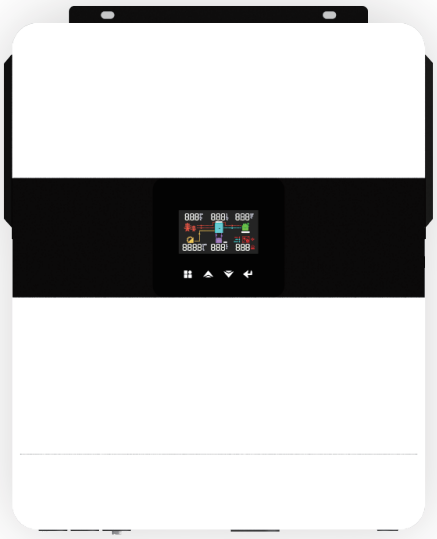


LCD DISPLAY

WIFI&GPRS available for iOS and Android

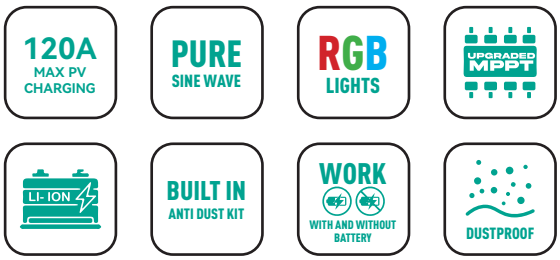
MODEL	SH/SC8.2KW-48V	SH/SC10.2KW-48V
Phase	1-phase	
Maximum PV Input Power	5400W+5400W	
Rated Output Power	8200W/8200VA	10200W/10200VA
Maximum Solar Charging Current	160A	
GRID-TIE OPERATION		
PV INPUT (DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC	
MPPT Voltage Range	90~450VDC	
Number of MPPT Trackers/Maximum Input Current	2/18A	
GRID OUTPUT (AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	35.6A	44.3A
Power Factor	>0.99	
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)	98%	
TWO LOAD OUTPUT POWER		
Full Load	8200W	10200W
Maximum Main Load	8200W	10200W
Maximum Second Load(battery mode)	2733W	3400W
Maximum Load Cut Off Voltage	52VDC	
Maximum Load Recovery Voltage Voltage	54VDC	
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90-280VAC or 170-280VAC	
Maximum AC Input Current	40A	60A
Frequency Range	59-61±1Hz	
BATTERY MODE OUTPUT(AC)		
Nominal Output Voltage	220/230/240VDC	
Output Waveform	Pure sine wave	
Efficiency(DC to AC)	94%	
BATTERY & CHARGER		
Nominal DC Voltage	48VDC	48VDC
Maximum Solar Charging Current	160A	160A
Maximum AC Charging Current	140A	160A
HYBRED OPERATION		
PV INPUT(DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage / Initial Feeding Voltage	90VDC/120VDC	
MPPT Voltage Range	90-450VDC	
Number of MPPT Trackers/Maximum Input Current	2/18A	
GRID OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	35.6A	44.3A
AC INPUT		
Ac Start-up Voltage / Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90-280VAC or 170-280VAC	
Maximum Ac Input Current	48.2A	60A
Maximum Ac Charging Current	140A	
GENERAL		
PHYSICAL		
Dimension, D×W×H(mm)	530*390*130	
Carton Dimension, D×W×H(mm)	620*465*205	
Net Weight (kgs)	14.2	14.5
Gross Weight(kgs)	15.7	16.0
INTERACE		
Communication Port	RS232/RS485/WIFI/GPRS/LITHIUM BATTERY	
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non~condensing)	
Operating Temperature	-10℃ ~50℃	
STANDARD		
Compliance Safety	CE	

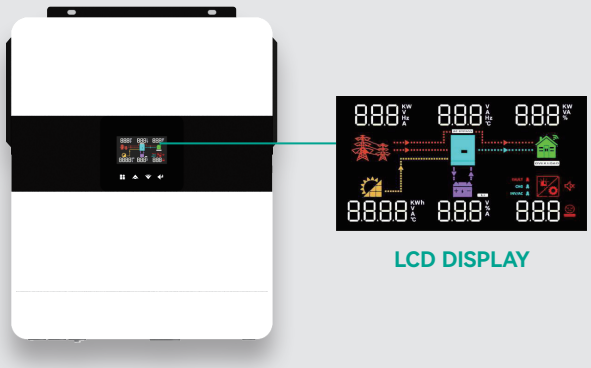
SH-6.2K SERIES



SC-6.2K SERIES

- Pure sine wave solar inverter (ON/OFF Grid)
- Output power factor 1.0
- WIFI&GPRS available for iOS and Android
- Inverter can run without battery
- One-key restoration to factory Settings
- Built-in Lithium battery automatic activation
- Built-in 120A MPPT Solar charge controller: max 6200W (for 4.2KW), max 6500W(for 6.2KW)
- Built-in 80A MPPT Solar charge: max 6500W
- High PV input voltage range (60~450VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Dual output
- Touch button





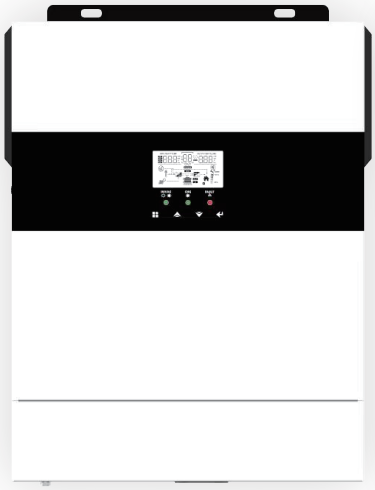
LCD DISPLAY

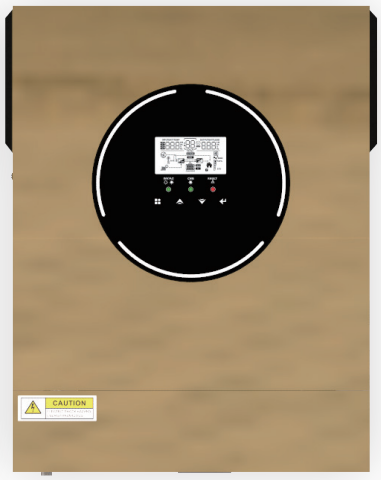
WIFI&GPRS available for iOS and Android

MODEL	SH/SC4.2KW-24V	SH/SC6.2KW-48V
Phase	1-phase	
Maximum PV Input Power	6200W	6500W
Rated Output Power	4200W/4200VA	6200W/6200VA
Maximum Solar Charging Current	120A	
GRID-TIE OPERATION		
PV INPUT (DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage/Initial Feeding Voltage	60VDC/90VDC	
MPPT Voltage Range	60~450VDC	
Maximum Input Current	1/18A	1/22A
GRID OUTPUT (AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	18.2A	27.0A
Power Factor	>0.99	
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)	98%	
TWO LOAD OUTPUT POWER		
Full Load	4200W	6200W
Maximum Main Load	4200W	6200W
Maximum Second Load(battery mode)	1400W	2067W
Maximum Load Cut Off Voltage	26VDC	52VDC
Maximum Load Return Voltage	27VDC	54VDC
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90-280VAC or 170-280VAC	
Maximum AC Input Current	24.7A	36.4A
Frequency Range	59-61±1Hz	
BATTERY MODE OUTPUT(AC)		
Nominal Output Voltage	220/230/240VDC	
Output Waveform	Pure sine wave	
Efficiency(DC to AC)	94%	
PV INPUT (DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
MPPT Voltage Range	60-450VDC	
Maximum Input Current	1/18A	1/22A
BATTERY & CHARGER		
Nominal DC Voltage	24VDC	48VDC
Maximum Solar Charging Current	120A	120A
Maximum AC Charging Current	100A	100A
Maximum Solar + AC Charging Current	120A	120A
HYBRED OPERATION		
PV INPUT(DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage / Initial Feeding Voltage	90VDC/120VDC	
MPPT Voltage Range	60-450VDC	
Number of MPPT Trackers/Maximum Input Current	1/18A	1/22A
GRID OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	18.2A	27.0A
AC INPUT		
Ac Start-up Voltage / Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90-280VAC or 170-280VAC	
Maximum Ac Input Current	24.7A	36.4A
Maximum Ac Charging Current	100A	
GENERAL		
PHYSICAL		
Dimension, D×W×H(mm)	420*350*110	
Carton Dimension, D×W×H(mm)	500*415*180	
Net Weight (kgs)	8.0	8.9
Gross Weight(kgs)	9.0	10.0
INTERACE		
Communication Port	RS232/RS485/WIFI/GPRS/LITHIUM BATTERY	
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non~condensing)	
Operating Temperature	-10℃ ~50℃	
STANDARD		
Compliance Safety	CE	

SH-3.2K SERIES

SC-3.2K SERIES





SOC Protection

Parameters Adjustable

LCD Display

80A MPPT

Button Mode

IP21 Ingress Protection

98% Max. Effciency

RS232 GPRS/WiFi

- Pure sine wave solar inverter
- Output power factor SY2.0K=0.8/SY3.2K>0.9
- WIFI&GPRS available for iOS and Android
- Built-in 80A MPPT Solar charge controller
- High PV input voltage range(30~400VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Meet the rich customize needs of customers
- Compatibe with lithium battery
- Solar enerny is provided directly to the load first

MODEL	SH/SC-2.0KW-12V	SH/SC-3.2KW-24V
Rated Power	1600W/2000VA	3000W/3200VA
AC INPUT		
Voltage	230VAC	
Selectable Voltage Range	170~280VAC(For Personal Computers)	
	90~280VAC(For Home Appliances)	
Frequency Range	50Hz/60Hz(Auto sensing)	
AC OUTPUT		
AC Voltage Regulation	230VAC±5%	
Surge Power	4000VA	6400VA
Efficiency(Peak)PV to INV	98%	
Efficiency(Peak)Battery to INV	94%	
Transfer Time	10ms(For Personal Computers); 20ms(For Home Appliances)	
BATTERY & AC CHARGER		
Battery Voltage	12VDC	24VDC
Floating Charge Voltage	13.5VDC	27VDC
Overcharge Protection	16VDC	33VDC
SOLAR CHARGER & AC CHARGER		
Solar Charge Type	MPPT	
Maximum PV Array Power	2000W	3000W
MPPT Range @ Operating Voltage	30-400VDC	
Maximum PV Array Open Circuit Voltage	400VDC	
Max Input Current	1/13A	
Maximum Solar Charging Current	80A	
Maximum AC Current	60A	
Maximum Solar + ACCharging Current	80A	
PHYSICAL		
Dimension, D×W×H(mm)	357*273*95	
Carton Dimension, D×W×H(mm)	435*335*165	
Dimensions of mounting holes(mm)	145-ϕ5×2	
Net Weight (kgs)	4.6	4.8
Gross Weight(kgs)	5.6	5.8
Communication Interface	RS232/WIFI/GPRS	
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non~condensing)	
Operating Temperature	-10℃~50℃	
STANDARD		
Compliance Satety	CE	

SH-1.5K SERIES

SC-1.5K SERIES

SOC Protection

Parameters Adjustable

LCD Display

40A MPPT

Button Mode

IP21 Ingress Protection

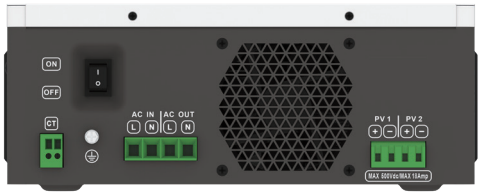
98% Max. Effciency

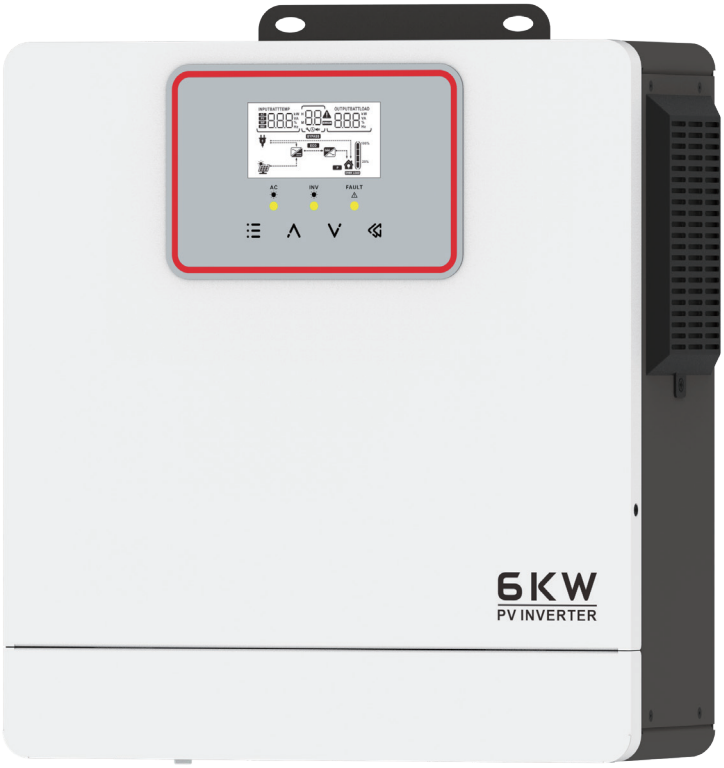
RS232 GPRS/WiFi

- Pure sine wave solar inverter
- Output power factor 1.0
- WIFI&GPRS available for iOS and Android
- Built-in 40A MPPT Solar charge controller
- High PV input voltage range 20~150VDC(for 1000W), 30~150VDC(for 1500W)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Meet the rich customize needs of customers
- Compatibe with lithium battery
- Solar enerny is provided directly to the load first

MODEL	SH/SC-1.0K12	SH/SC-1.5K24
Rated Power	1000W/1000VA	1500W/1500VA
AC INPUT		
Voltage	230VAC	
Selectable Voltage Range	170~280VAC(For Personal Computers) 90~280VAC(For Home Appliances)	
Frequency Range	50Hz/60Hz (Auto sensing)	
AC OUTPUT		
AC Voltage Regulation	230VAC±5%	
Surge Power	4000VA	6000VA
Efficiency(Peak)PV to INV	98%	
Efficiency(Peak)Battery to INV	94%	
Transfer Time	10ms	
BATTERY & AC CHARGER		
Battery Voltage	12VDC	24VDC
Floating Charge Voltage	13.5VDC	27VDC
Overcharge Protection	16VDC	33VDC
SOLAR CHARGER & AC CHARGER		
Solar Charge Type	MPPT	
Maximum PV Array Power	600W	1200W
MPPT Range @ Operating Voltage	20~150VDC	30~150VDC
Maximum PV Array Open Circuit Voltage	150VDC	
Maximum Solar Charging Current	40A	
Maximum AC Current	40A	
Maximum Solar + ACCharging Current	80A	
PHYSICAL		
Dimension, D×W×H(mm)	290*240*90	
Carton Dimension, D×W×H(mm)	340*295*145	
Net Weight (kgs)	3.5	3.6
Gross Weight(kgs)	4	4.2
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non~condensing)	
Operating Temperature	-10℃ ~50℃	
STANDARD		
Compliance Satety	CE	

META SERIES





60-500VDC

2PV/3PV

LCD
LCD Display

PURE SINE WAVE

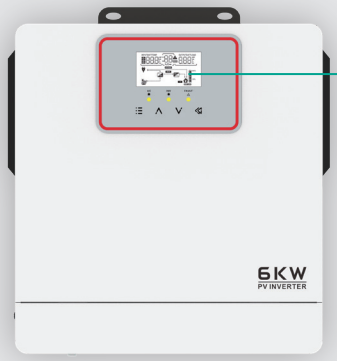
Button Mode

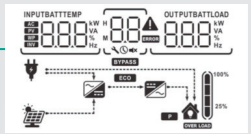
Dustproof

CT

Motor

- Pure sine wave inverter
- Configurable input voltage range for home appliances and personal computers viaLCD setting
- Combind to the grid based on applications via LCD setting
- Compatible to mains voltage
- Auto restart while AC is recovering
- Overload/ Over temperature/ short circuit protection
- Cold start function
- Dual mppt at 4KW and 6KW,three mppt at 10KW and 15KW
- Can Running 1.5P motor with 4KW,3P motor with 6KW, 1.5P+3P motor with 10KW,3P+3P motor with 15KW
- Full load work with solar only





LCD DISPLAY

WIFI&GPRS available for iOS and Android

MODEL	META-4KW	META-6KW	META-10KW	META-15KW
EATED POWER	**4KVA/4KW**	**6KVA/6KW**	**10KVA/10KW**	**15KVA/15KW**
PHASE	1-phase in /1-phase out			
Maximum Pv Input Powe	4500W	4500W*2	4500W*3	4500W*4
GRID-TIE OPERATION				
PV INPUT (DC)				
Maximum DC Voltage	500VDC			
Start-up Voltage /Initial Feeding Voltage	90VDC/120VDC			
MPPT Voltage Range	60-450VDC			
Number of MPP Trackers /Maximum Input Current	1/18A	2/18A	3/18A	3/18A
GRID OUTPUT (AC)				
Nominal Output Voltage	220/230/240VAC			
Output Voltage Range	184-264.5 VAC or 195.5-253 VAC or 184-264.4 VAC(Selectable)			
Nominal Output Current	17.5A	26.5A	43.5A	65.5A
Power Factor	>0.99			
EFFICIENCY				
Maximum Conversion Efficiency(DC/AC)	97%			
OFF-GRID OPERATION				
AC INPUT				
AC Start-up Voltage /Auto Restart Voltage	170-280 VAC/180 VAC (UPS)			
Acceptable Input Voltage Range	90-280 VAC /170-280 VAC (UPS)			
Frequency Range	50Hz/60Hz(Auto sensing)			
Maximum AC Input Current	17.5A	26.5A	43.5A	65.5A
GENERAL				
PHYSICAL				
Dimension, D×W×H(mm)	300*278*106		316.8*310.6*107.3	
Net Weight (KGS)	4.5	4.92	5.69	6.5
INTERFACE				
Parallel Function	Yes, 9units			
Communication Port	RS232(WIFI) CAN(Parallel)			
Humidity	5% to 95% Relative Humidity(Non~condensing)			
IP degree	IP21			
Operating Temperature	-10℃~50℃			
Storage Temperature	-15℃~60℃			

MEGA SERIES

50-450VDC

GEN

LCD Display

PURE SINE WAVE

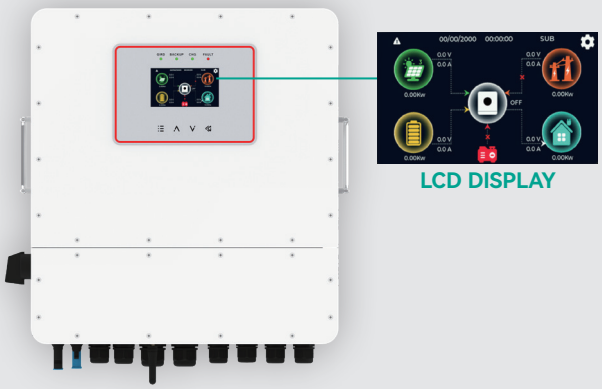
Button Mode

IP65 Waterproof

CT

Motor

- IP65 waterproof and dustproof
- Dual outputs for smart load management
- Two independent AC power sources connected and switched automatically
- Self-consumption supply priority for PV, Battery ro Gird
- Built-in communication port for BMS(RS485)
- Touch Screen
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and Grid-tie with backup
- Parallel operation up to 9 units
- Built-in CT Function
- Color and touch LCD, more fuction design

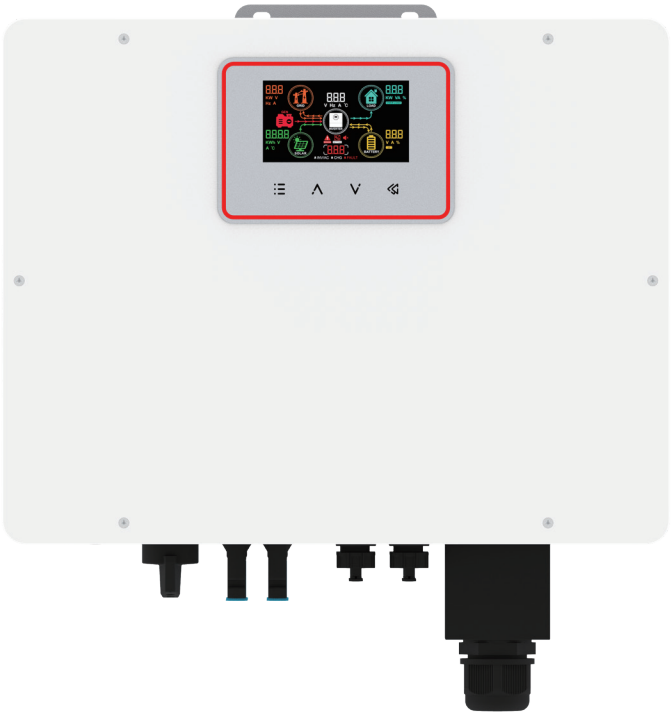


LCD DISPLAY

WIFI&GPRS available for iOS and Android

MODEL	MEGA-6KW	MEGA-8KW	MEGA-10KW	MEGA-12KW
PHASE	1-phase in /1-phase out			
Maximum Pv Input Powe	9000W	13500W	16200W	16200W
Rated Output Power	6000W	8000W	10000W	12000W
Maxmum Charging Power	6000W	8000W	10000W	12000W
GRID-TIE OPERATION				
PV INPUT (DC)				
Maximum DC Voltage	550VDC			
Start-up Voltage /Initial Feeding Voltage	90VDC/120VDC			
MPPT Voltage Range	50-450VDC			
Number of MPP Trackers /Maximum Input Current	2/18A	2/18A+36A	2/18A+36A	2/18A+36A
GRID OUTPUT (AC)				
Nominal Output Voltage	220/230/240VAC			
Output Voltage Range	184-264.5 VAC or 195.5-253 VAC or 184-264.4 VAC(Selectable)			
Nominal Output Current	26.1A	34.8A	43.5A	52.2A
Power Factor	>0.99			
EFFICIENCY				
Maximum Conversion Efficiency(DC/AC)	97%			
OFF-GRID OPERATION				
AC INPUT				
AC Start-up Voltage /Auto Restart Voltage	120-140 VAC/180 VAC			
Acceptable Input Voltage Range	90-280 VAC			
Frequency Range	50Hz/60Hz(Auto sensing)			
Maximum AC Input Current	40A	50A	60A	70A
PV INPUT (DC)				
Maximum DC Voltage	550VDC			
MPPT Voltage Range	50-450VDC			
Number of MPP Trackers /Maximum Input Current	2/18A	2/18A+36A	2/18A+36A	2/18A+36A
BATTERY MODE OUTPUT (AC)				
Nominal Output Voltage	220/230/240VAC			
Output Waveform	PURE SINE WAVE			
Efficiency (DC to AC)	93%			
HYBRID OPERATION				
PV INPUT (DC)				
Maximum DC Voltage	550VDC			
Start-up Voltage /Initial Feeding Voltage	90VDC/120VDC			
MPPT Voltage Range	50-450VDC			
Number of MPP Trackers /Maximum Input Current	2/18A	2/18A+36A	2/18A+36A	2/18A+36A
GRID OUTPUT (AC)				
Nominal Output Voltage	220/230/240VAC			
Output Voltage Range	184-264.5 VAC or 195.5-253 VAC or 184-264.4 VAC(Selectable)			
Nominal Output Current	26.1A	34.8A	43.5A	52.2A
AC INPUT				
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC			
Acceptable Input Voltage Range	90-280VAC or 170-280VAC			
Maximum AC Input Current	40A	50A	60A	70A
BATTERY MODE OUTPUT (AC)				
Nominal Output Voltage	220/230/240VAC			
Efficiency (DC to AC)	93%			
BATTERY&CHARGER				
Nominal DC Voltage	48VDC			
Maximum Solar Charging Current	135A	190A	220A	250A
Maximum AC Charging Current	135A	190A	220A	250A
Maximum Charging Current	135A	190A	220A	250A
GENERAL				
PHYSICAL				
Dimension, D×W×H(mm)	500*483*235.5		600*483*260	
Net Weight (KGS)	30	38	42	45
INTERFACE				
Parallel Function	Yes, 9units			
Communication Port	RS232/RS485/CAN/WiFi/Dry contact			
Humidity	5% to 95% Relative Humidity(Non~condensing)			
IP degree	IP65			
Operating Temperature	-10℃ ~50℃			
Storage Temperature	-15℃ ~60℃			

MATE SERIES



60-500VDC

1~4PV

LCD Display

PURE SINE WAVE

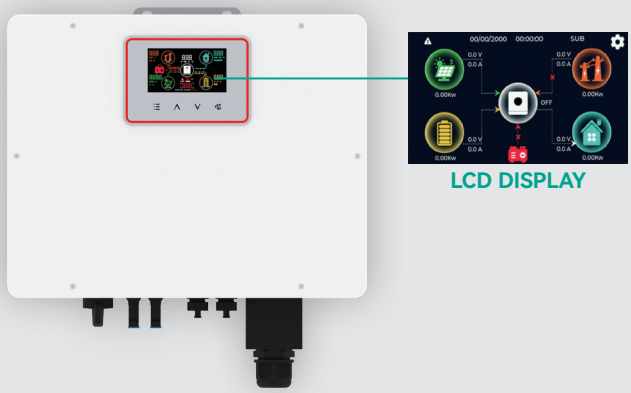
Button Mode

IP65 Waterproof

CT

Motor

- Wide voltage range compatible with various power grids
- Color LCD+LED design
- Off-grid function, solar power with only
- 110% output power oversizing,200% peak output power
- IP65 protection: support outdoor installation
- Built-in PV switch
- WiFi&GPRS available for IOS and Android
- Photovoltaic Anti-Reverse Flow (CT optional)



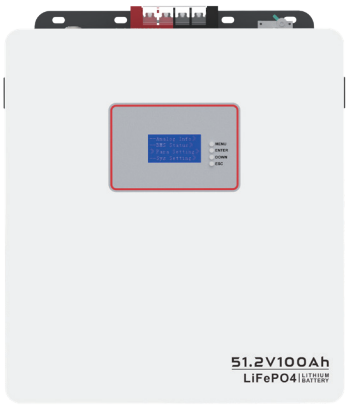
LCD DISPLAY

WIFI&GPRS available for iOS and Android

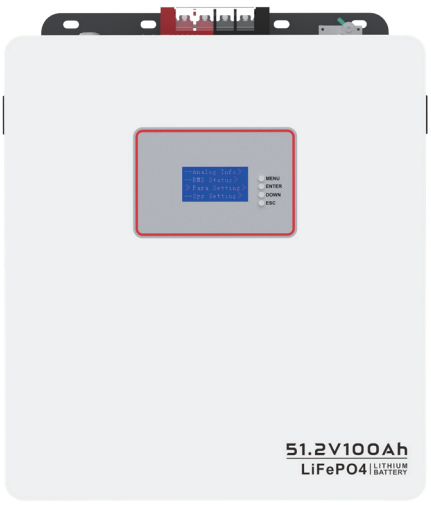
MODEL	MATE-3KW	MATE-6KW	MATE-10KW	MATE-15KW
INPUT (DC)				
Max, Input Power	4.5KW	9KW	13.5KW	18KW
Max. Input Voltages	500Vdc			
Start Voltage	90Vdc			
Rated Input Voltage	360Vdc			
MPPT Voltage Range	60Vdc-450Vdc			
Number of MPP Trackers	1	2	3	4
Number of String per MPPT	1/1	1/2	1/3	1/4
Max. Current per MPPT	18A	18A*2	18A*3	18A*4
Max short CiruitCument per MPPT	23A			
OUTPUT (AC)				
Max. Output Curren	13A	26A	43A	65A
Rated Output Power	3KW	6KW	10KW	15KW
Max. Output Power	8KW	12KW	20KW	30KW
Rated Grid Frequency	50Hz/60Hz			
Rated Grid Voltage	220Vac/230Vac/240Vac			
Power Factor	>0.99			
THDi	<3%			
EFFICIENCY				
Max. Efficiency	98%	98.3%		
European Eficiency	97%	97.3%		
MPPT Efficiency	99%			
PROTECTION				
DC Switch	YES			
DC Reverse Polarity Protection	YES			
Anti-islanding Protection	YES			
AC short Circuit Protection	YES			
Residual Current Monitoring Unit	YES			
Insulation Resistance Monitoring	YES			
Ground Fault Monitoring	YES			
Grid Monitoring	YES			
PV String Monitoring	YES			
Surge Protection	YES			
COMMUNICATION				
Humidity	Color LED + LED + APP			
IP degree	RS485/RS232/WiFi			
STANDARD COMPLIANCE				
Certification	IEC/62109-1, IEC/61000-1/3			
GENERAL DATA				
Dimensions, D×W×H(mm)	431*414.5*97	441*424.5*107	452*435.5*118	463*446.5*129
Weight (kgs)	6	11.5	17.5	23.5
Operating Temperature Range	-10℃~60℃			
Cooling Method	Fan/SmartCooling			
Protection Degree	IP65			
Max. Operating Altitude	4000M			
Relative Humidity	0-100%			
Topology	Transformeriess			

TITAN SERIES

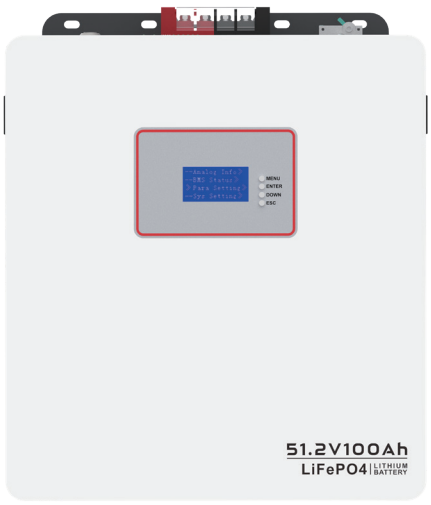
- BMS
- Ultra-long Cycle Life
- Flexibility Module Design
- Touch Screen
- Environment Friendly
- Charge/discharge 1C
- Optimal Electricity Costy
- A+ Grade Cell



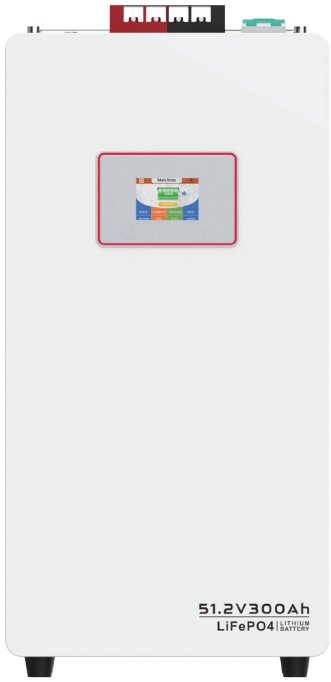
25.6V 100AH



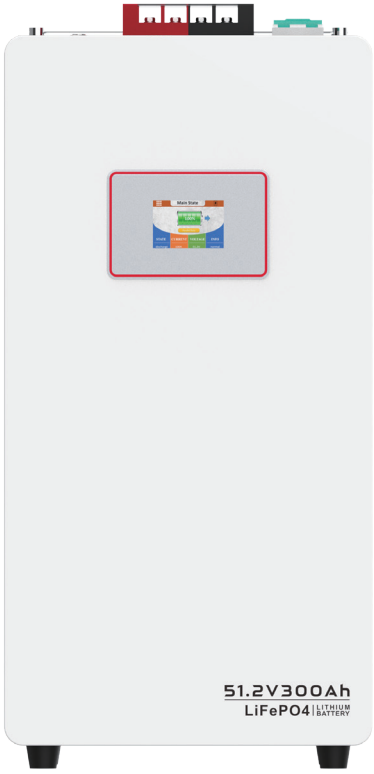
25.6V 200AH



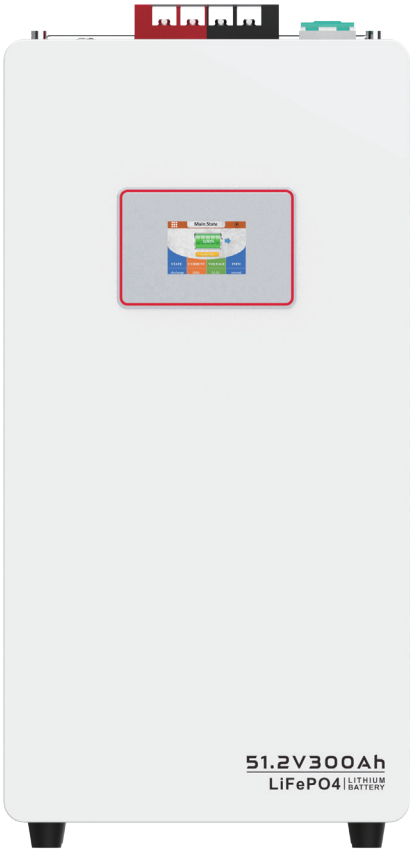
51.2V 100AH



25.6V 300AH



51.2V 200AH



51.2V 300AH

ITEMS	25.6V 100Ah	25.6V 200Ah	25.6V 300Ah	51.2V 100Ah	51.2V 200Ah	51.2V 300Ah
Energy Storage	2560Wh	5120Wh	7680Wh	5120Wh	10240Wh	15360Wh
Rated Voltage	25.6V	25.6V	25.6V	51.2V	51.2V	51.2V
Voltage Range	21.6V-29.2V	21.6V-29.2V	21.6V-29.2V	43.2V-58.4V	43.2V-58.4V	43.2V-58.4V
Max Charge Current	100A	200A	200A	100A	200A	200A
Max Discharge Current	100A	200A	200A	100A	200A	200A
Dischargeing Cut-off Voltage	21.6V	21.6V	21.6V	43.2V	43.2V	43.2V
Floating Voltage	28.8V	28.8V	28.8V	57.6V	57.6V	57.6V
Cycle Life	6000 cycles @ 80% DOD					
Certification	CE/IEC62619/UN38.3					
Communication	RS485/CAN/DryContact					
Work Temperature	-20℃ ~55℃					

HIGH VOLTAGE

20KWH - 200KWH

95% Efficiency

5 Year Warranty

6000 Cycles in 100% DOD

Remote Control And Diagnosis

COMMERCIAL ALL-IN-ONE ESS SERIES

DETAILLED PARAMETER					
Inverter Type	Hybrid Inverter				
Rated Energy	60kWh	107kWh	215kWh	1003kWh	1505kWh
Battery Capacity	1200Ah	280Ah	280Ah	1400Ah	1960Ah
PCS	20kW	30kW	100kW	500kW	800kW
System Structure	BMU/BCU/EMS				
AC Voltage Range	380/400Vac	380/400Vac	380/400Vac	380V/360V~440Vac; 480V/432V~528Vac 50/45~55Hz; 60/55~65Hz	
AC (OFF Grid)	51.2Vdc	384Vdc	768Vdc	716.8Vdc	768Vdc
Rated Battery Voltage	44.8-57.4VDC	336-432VDC	672-876VDC	627-817VDC	672-876VDC
Battery Module	16S6P	120S1P	240S1P	240S5P	240S7P
Continuous Output Current	600A max	100A max	150A max	800A max	1250A max
Battery Type	LiFePO4				
Ingress Protection	IP54				
Working Temperature	-20℃ ~55℃				
Size (mm)	1200*790*1820	1000*700*1450	1350*1700*2350	6052*1700*2350	8000*1700*2350
Weight	≈ 500kg	≈ 900kg	2000kg	12000kg	14000kg
Designed Life	15 years				
Data Monitor	WiFi/4G				
Fire Suppression	HFC-EA				
Noisy	<75dB				
Cooling	Air conditioning				
BMS Communication	RS485/CAN				
EMS Communication	RS485, TCP/IP, Ethernet				

POWERWALL LIFEPO$_4$ BATTERY SERIES

Model	25.6V 100Ah	51.2V 100Ah	51.2V 200Ah	51.2V 200Ah	51.2V 300Ah
Size (mm)	450*165*380	450*165*542	495*247*600	550*165*765	495*247*785
Weight	38kg	54.5kg	97.4kg	97.4kg	123.2kg
Max Output Current	100A	100A	150A	150A	200A
Optional Function	WiFi, Heater				
Max Connection	1S16P or Customizable				
Comms.protocol	RS485, CAN				
Inverter Adaptation	Goodwe, Growatt, Solax, Sofar, Luxpower, Must, Victron, Deye, Pylontech, Sorotec, Voltronic, Growatt, SRNE, etc				
Lifespan	Over 6,000 cycles (80%DOD)				
Ingress Protection	IP41				

Mono Solar 180W SERIES

INTRODUCTION

Solar 180W Panel module assembled with PERC cells, the configuration of the modules offers the advantages of higher power output, cells temperature – dependent performance reduced shadows effect on the energy generation lower risk of hot spot, as well as enhanced tolerance for mechanical loading.

Higher Durability

The multi-busbar design can decrease the risk of the cell micro-cracks and fingers broken.

High Power Density

High conversion efficiency and more power output per square meter, by lower series resistance and improved light harvesting.

PID Resistant

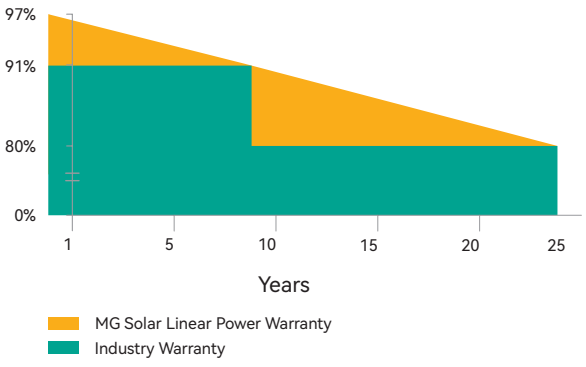
Tested in accordance to the standard I our PV modules have demonstrated resistance against PID (Potential Induced Degradation), which translates to security for your investment.

Bigger Cells With Better Performance

A slight increase of the size of our cells, Boosts the performance of the newest modules by six percent on average.

First - Class Quality Assurance

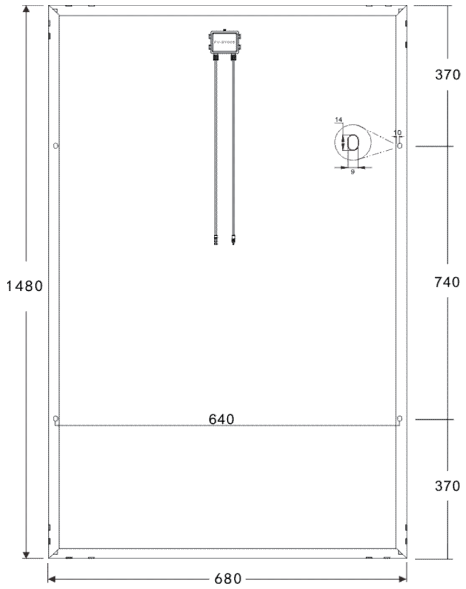
5-year warranty for material and technology
25-year linear power ouput warranty



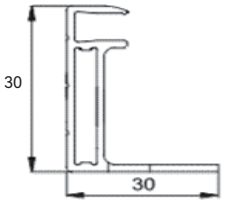
Comprehensive Certificates

- IEC61215, IEC61730
- ISO9001: 2015 Quality management systems
- ISO14001: 2015 Environmental management systems
- ISO45001: 2015 Occupational health and safety management systems

Mechanical Diagrams

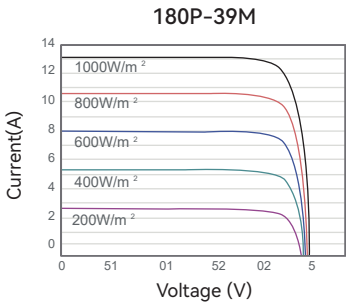


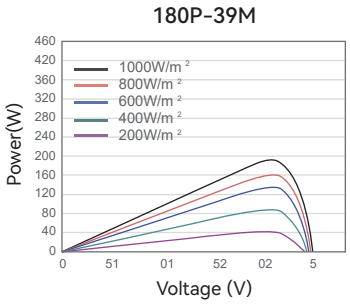
Mechanical Diagrams



UnitsL: mm/±2

Characteristics





SPECIFICATIONS	
Weight	9.6kg
Dimensions	1480*680*30mm
Cell Dimensions	210*105mm
Cell Amount	3*13pcs
Maximum System Voltage	1000V
Junction Box	IP67
Frame	Aluminum Alloy
Cable	2.5mm³/700mm
Connentor	MC4 Compatible
Application Level	Class A
ELECTRICAL PARAMETERS AT STC	
Module Type	180P-39M
Maximum Power (Pmax/W)	180
Open Circuit Voltage (Voc/V)	24.6
Short Circuit Current (Isc/A)	10.26
Maximun Power Voltage (Vmp/V)	19.6
Maximun Power Current (Imp/A)	9.68
Module Efficiency (%)	19.87
*Under standard test conditions (STC) of irradiance of 1000W/m³, spectrum AM 1.5 and cell temperature of 25℃	
TEMPERATURE CHARACTERISTICS	
NOCT	45±2℃
Temp Coefficient of Voc	-0.275%/℃
Temp Coefficient of Isc	+0.046%/℃
Temp Coefficient of Pmax	-0.350%/℃
PACKING CONFIGURATION	
Modules/Pallet	2 or 36 Pieces
Modules/40HQ'Container	1800 or 1650 Pieces
MAXIMUM RATING	
Output Tolerance	±3%
Operating Temperature	-40℃ ~+85℃
Wind Load/Snow Load	2400pa/5400pa

Mono Solar 200W SERIES

INTRODUCTION

Solar 200W Panel module assembled with PERC cells, the configuration of the modules offers the advantages of higher power output, cells temperature – dependent performance reduced shadows effect on the energy generation lower risk of hot spot, as well as enhanced tolerance for mechanical loading.

Higher Durability

The multi-busbar design can decrease the risk of the cell micro-cracks and fingers broken.

High Power Density

High conversion efficiency and more power output per square meter, by lower series resistance and improved light harvesting.

PID Resistant

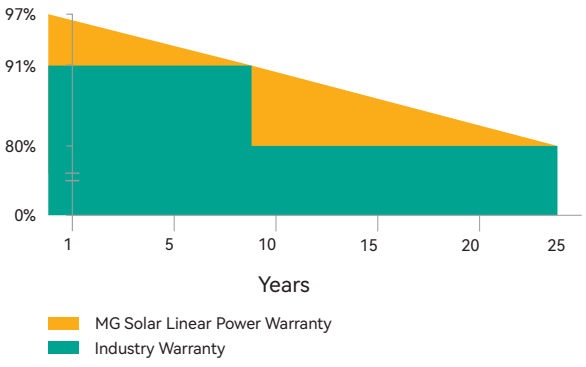
Tested in accordance to the standard I our PV modules have demonstrated resistance against PID (Potential Induced Degradation), which translates to security for your investment.

Bigger Cells With Better Performance

A slight increase of the size of our cells, Boosts the performance of the newest modules by six percent on average.

First - Class Quality Assurance

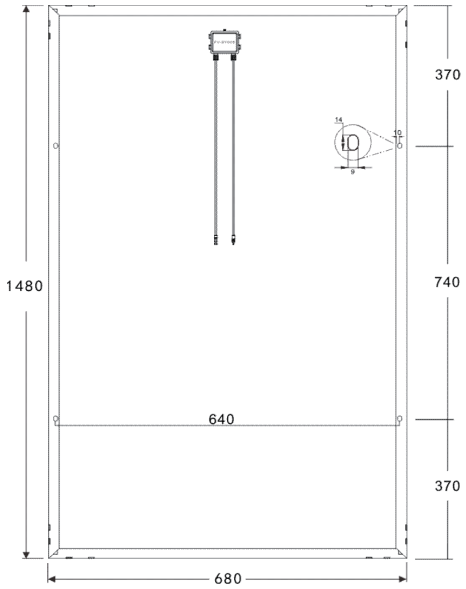
5-year warranty for material and technology
25-year linear power ouput warranty



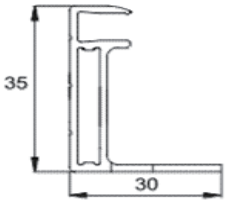
Comprehensive Certificates

- IEC61215, IEC61730
- ISO9001: 2015 Quality management systems
- ISO14001: 2015 Environmental management systems
- ISO45001: 2015 Occupational health and safety management systems

Mechanical Diagrams

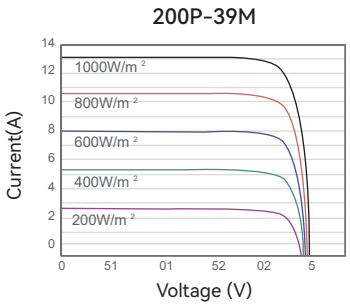


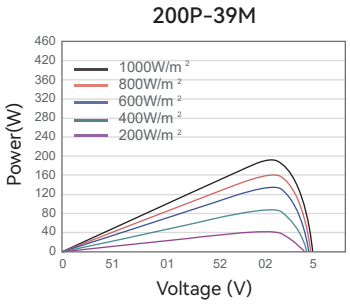
Mechanical Diagrams



UnitsL: mm/±2

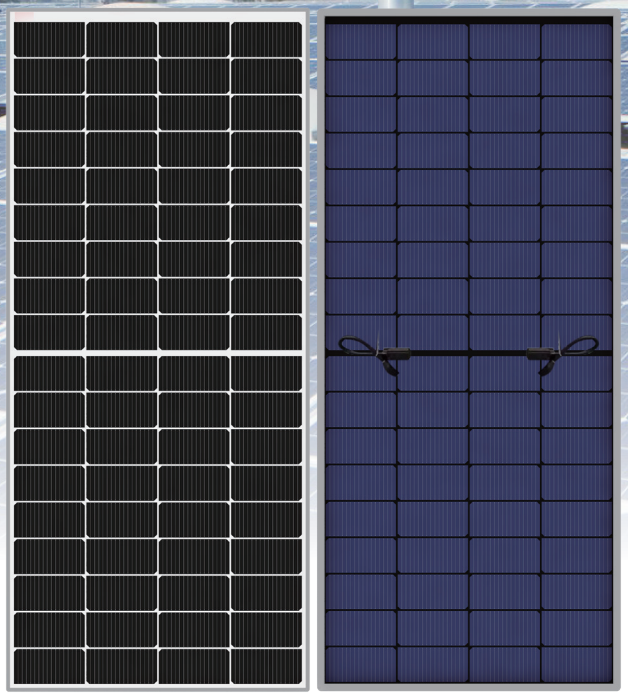
Characteristics





SPECIFICATIONS	
Weight	9.6kg
Dimensions	1480*680*30mm
Cell Dimensions	210*105mm
Cell Amount	3*13pcs
Maximum System Voltage	1000V
Junction Box	IP67
Frame	Aluminum Alloy
Cable	2.5mm³/700mm
Connentor	MC4 Compatible
Application Level	Class A
ELECTRICAL PARAMETERS AT STC	
Module Type	200P-39M
Maximum Power (Pmax/W)	200
Open Circuit Voltage (Voc/V)	26.5
Short Circuit Current (Isc/A)	10.26
Maximun Power Voltage (Vmp/V)	22.2
Maximun Power Current (Imp/A)	9.01
Module Efficiency (%)	19.87
*Under standard test conditions (STC) of irradiance of 1000W/m³, spectrum AM 1.5 and cell temperature of 25℃	
TEMPERATURE CHARACTERISTICS	
NOCT	45±2℃
Temp Coefficient of Voc	-0.275%/℃
Temp Coefficient of Isc	+0.046%/℃
Temp Coefficient of Pmax	-0.350%/℃
PACKING CONFIGURATION	
Modules/Pallet	2 or 36 Pieces
Modules/40HQ'Container	1800 or 1650 Pieces
MAXIMUM RATING	
Output Tolerance	±3%
Operating Temperature	-40℃ ~+85℃
Wind Load/Snow Load	2400pa/5400pa

Mono Solar 280W SERIES



INTRODUCTION

Solar 280W Panel module assembled with PERC cells, the configuration of the modules offers the advantages of higher power output, cells temperature – dependent performance reduced shadows effect on the energy generation lower risk of hot spot, as well as enhanced tolerance for mechanical loading.

Higher Durability

The multi-busbar design can decrease the risk of the cell micro-cracks and fingers broken.

High Power Density

High conversion efficiency and more power output per square meter, by lower series resistance and improved light harvesting.

PID Resistant

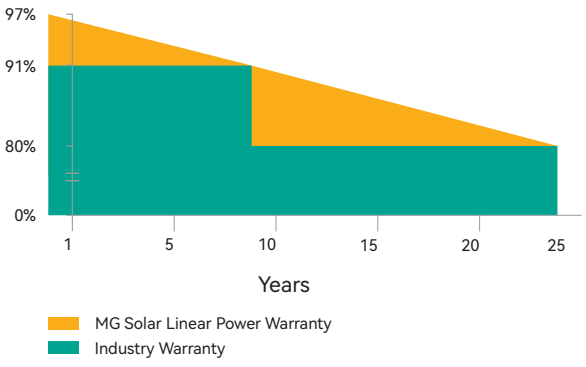
Tested in accordance to the standard I our PV modules have demonstrated resistance against PID (Potential Induced Degradation), which translates to security for your investment.

Bigger Cells With Better Performance

A slight increase of the size of our cells, Boosts the performance of the newest modules by six percent on average.

First - Class Quality Assurance

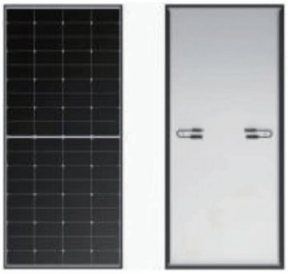
5-year warranty for material and technology
25-year linear power ouput warranty

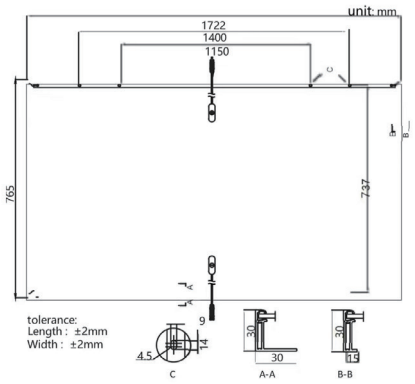


Comprehensive Certificates

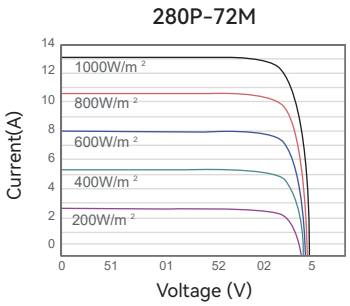
- IEC61215, IEC61730
- ISO9001: 2015 Quality management systems
- ISO14001: 2015 Environmental management systems
- ISO45001: 2015 Occupational health and safety management systems

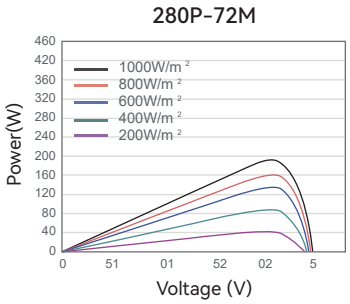
Mechanical Diagrams





Characteristics





SPECIFICATIONS	
Weight	13kg
Dimensions	1745*765*30mm
Cell Dimensions	182*91mm
Cell Amount	4*18pcs
Maximum System Voltage	1500V
Junction Box	IP67
Frame	Aluminum Alloy
Cable	2.5mm^3/700mm
Connentor	MC4 Compatible
Application Level	Class A
ELECTRICAL PARAMETERS AT STC	
Module Type	280P-72M
Maximum Power (Pmax/W)	280
Open Circuit Voltage (Voc/V)	24.8
Short Circuit Current (Isc/A)	14.3
Maximun Power Voltage (Vmp/V)	20.9
Maximun Power Current (Imp/A)	13.4
Module Efficiency (%)	20.90
*Under standard test conditions (STC) of irradiance of 1000W/m^3, spectrum AM 1.5 and cell temperature of 25℃	
TEMPERATURE CHARACTERISTICS	
NOCT	45±2℃
Temp Coefficient of Voc	-0.275%/℃
Temp Coefficient of Isc	+0.046%/℃
Temp Coefficient of Pmax	-0.350%/℃
PACKING CONFIGURATION	
Modules/Pallet	2 or 36 Pieces
Modules/40HQ'Container	1130 or 928 Pieces
MAXIMUM RATING	
Output Tolerance	±3%
Operating Temperature	-40℃ ~+85℃
Wind Load/Snow Load	2400pa/5400pa

182 MONO

JTH40W-360W

SOLAR PANEL

Efficient and Flexibleos
Ultra efficient and customized design

Economic Dignity
Intelligent manufacturing, optimal const-effectiveness

Reliability Ability
Durable and reliable, with excellent low light response

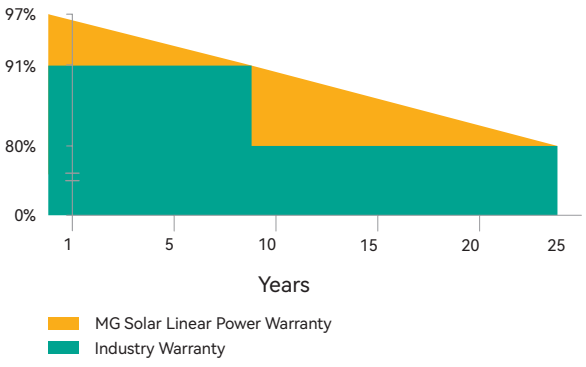
Flexible Weather Resistance
Select materials and cope with harsh environments

Excellent Quality
Authoritative certification, comprehensive quality assurance

System Integration
Technology integration to meet system requirements

First - Class Quality Assurance

5-year warranty for material and technology
25-year linear power ouput warranty



Comprehensive Certificates

- IEC61215, IEC61730
- ISO9001: 2015 Quality management systems
- ISO14001: 2015 Environmental management systems
- ISO45001: 2015 Occupational health and safety management systems

Applicable Scenarios


Solar Energy Storage System


Solar Pump System


Home Solar System


Factory Solar System

Features

Products assembled with multi - busbar cells, reducing shading effect on the energy generation and lowering the risk of hot spot.

Passes the test for weather resistance in harsh environments (salt mist, ammonia corrosion and sandstorm).

Excellent encapsulating materials and a strict production process ensure high resistance against PID (Potential Induced Degradation) of PV module.

With series and parallel design, it reduces the series resistance RS of the module(s), reduces the loss of internal electronic performance, and improves the power generation capacity of the whole system.

Cutting solar cell technology significantly reduces string current and module damage and is a good choice for projects in high temperature areas.

MODEL	Power	Vmp	Imp	Voc	Isc	Panel Size (mm)	Cell Size (mm)	Array
JTH-182M040	40W	18.24V	2.19A	21.80V	2.39A	500*400*25	182*30.3	2*16
JTH-182M050	50W	18.24V	2.74A	21.80V	2.97A	670*400*25	182*36.4	2*16
JTH-182M060	60W	18.24V	3.29A	21.80V	3.49A	430*760*25	182*45.5	4*8
JTH-182M080	80W	18.24V	4.39A	21.80V	4.65A	550*760*25	182*60.6	4*8
JTH-182M100	100W	18.24V	5.48A	21.80V	5.81A	680*760*25	182*76	4*8
JTH-182M120	120W	18.24V	6.58A	21.80V	6.97A	800*760*30	182*91	4*8
JTH-182M160	160W	18.24V	8.77A	21.80V	9.30A	1040*760*30	182*121.2	4*8
JTH-182M200	200W	18.24V	10.96A	21.80V	11.62A	1290*760*30	182*151.7	4*8
JTH-182M240	240W	18.24V	13.16A	21.80V	13.95A	1530*760*35	182*182	4*8
JTH-182M300	300W	34.2V	8.77A	41.04V	9.30A	1290*1134*35	182*121.2	6*10
JTH-182M360	360W	34.2V	10.53A	41.04V	11.16A	1540*1134*35	182*145.6	6*10

182 MONO

JTH410W-460W

HALF CUT SOLAR PANEL

Applicable Scenarios

Solar Energy Storage System

Solar Pump System

Home Solar System

Factory Solar System

Efficient and Flexibleos
Ultra efficient and customized design

Economic Dignity
Intelligent manufacturing, optimal const-effectiveness

Reliability Ability
Durable and reliable, with excellent low light response

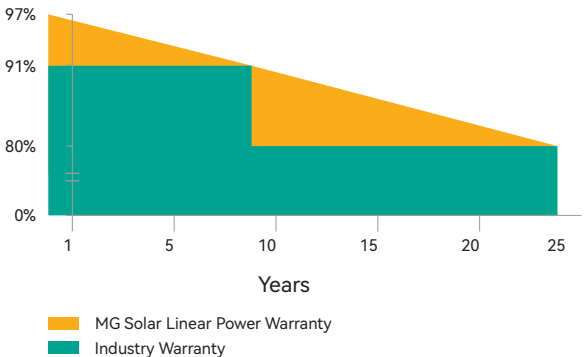
Flexible Weather Resistance
Select materials and cope with harsh environments

Excellent Quality
Authoritative certification, comprehensive quality assurance

System Integration
Technology integration to meet system requirements

First - Class Quality Assurance

5-year warranty for material and technology
25-year linear power ouput warranty



Comprehensive Certificates

- IEC61215, IEC61730
- ISO9001: 2015 Quality management systems
- ISO14001: 2015 Environmental management systems
- ISO45001: 2015 Occupational health and safety management systems

Mechanical Parameters

MODEL	410W	460W
Weight	21.5kg	22kg
Dimensions	1722*1134*30mm	1909*1134*30mm
Cell Amount	54*2(108pcs)	60*2(120pcs)
Maximum System Voltage	1500V	
Junction Box	IP68	
Frame	Aluminum Alloy	
Cable	4mm²/300mm	
Connector	MC4 Compatible	
Application Level	Class A	
Packaging	36pcs/Pallet, 936pcs/40HQ container	36pcs/Pallet, 864pcs/40HQ container

Electrical Parameters AT STC

MODULE TYPE	JTH410P-108M	JTH460P-120M
Maximum Power (Pmax/W)	410	460
Module Efficiency (%)	21.00%	21.20%
Open Circuit Voltage (Voc/V)	37.28	41.55
Short Circuit Current (Isc/A)	13.94	14.05
Voltage at Max.Power (Vmp/V)	30.95	35.06
Current at Max.Power (Imp/A)	13.25	13.13
Power Tolerrance	0~±3%	

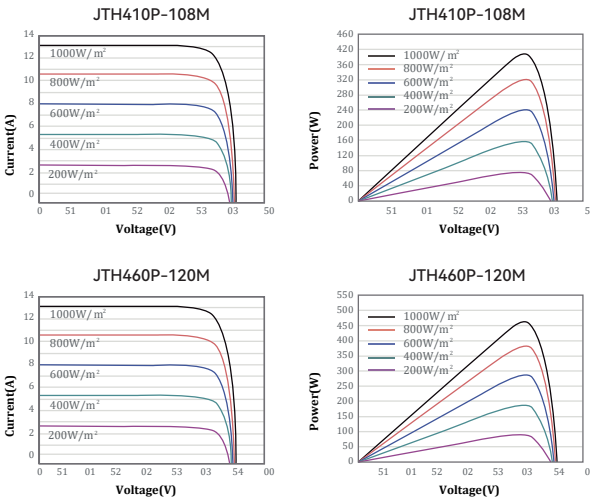
STC: Irradiance 1000W/m² Cell Temperature 25℃ AM1.5

Electrical Parameters AT NOCT

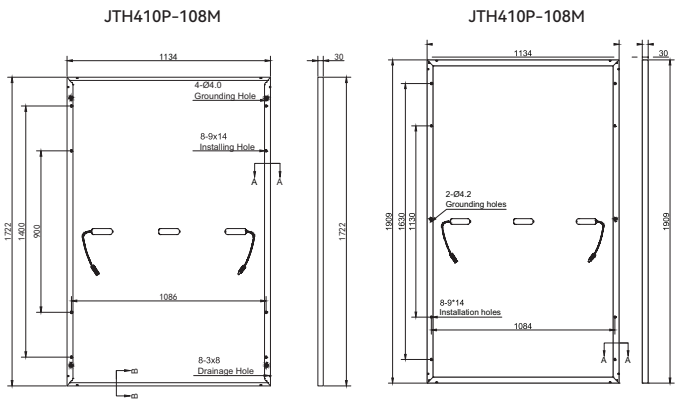
MODULE TYPE	JTH410P-108M	JTH460P-120M
Maximum Power (Pmax/W)	305.0	346.0
Open Circuit Voltage (Voc/V)	34.90	38.85
Short Circuit Current (Isc/A)	11.26	11.17
Voltage at Max.Power (Vmp/V)	28.80	32.76
Current at Max.Power (Imp/A)	10.60	10.56

NOCT: Irradiance 800W/m² Ambient Temperature 20℃ Wind at 1m/S AM1.5

Characteristics



Mechanical Diagrams

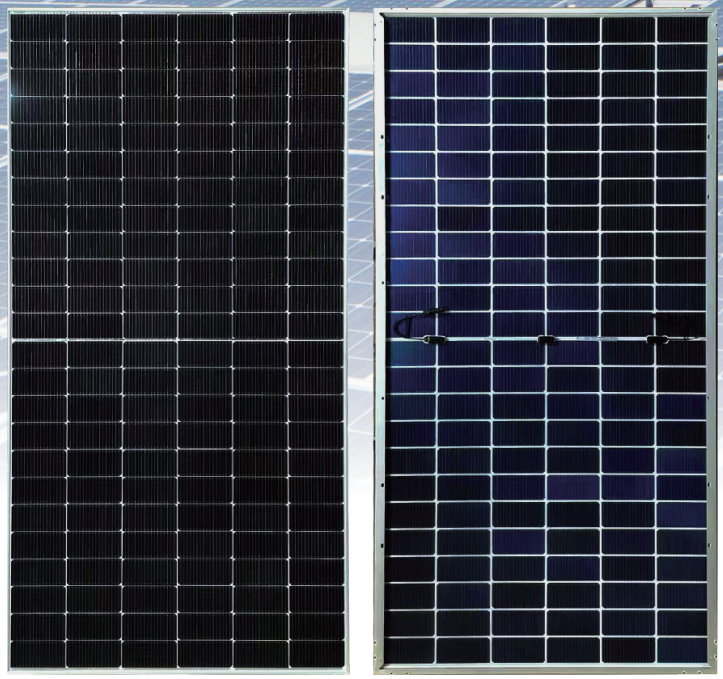


***Note:** Please read the safety and installation manual before using the product. We reserve the right of final interpretation. The specifications in this datasheet are subject to change without notice.

182 MONO

JTH550W P Type
JTH580W N Type Bifacial

HALF CUT SOLAR PANEL



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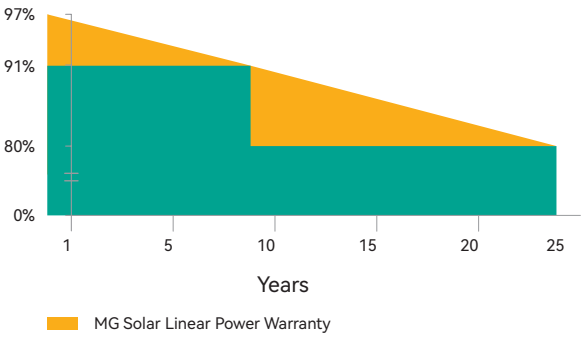
First - Class Quality Assurance

5-year warranty for material and technology
25-year linear power ouput warranty



Comprehensive Certificates

- IEC61215, IEC61730
- ISO9001: 2015 Quality management systems
- ISO14001: 2015 Environmental management systems
- ISO45001: 2015 Occupational health and safety management systems

Mechanical Parameters

CELL MODEL	182mm P type	182mm Topcan N type
Weight	27.3kg	31.5kg
Dimensions	2279*1134*30/35mm	2279*1134*30/35mm
Cell Amount	72*2(144pcs)	72*2(144pcs)
Maximum System Voltage	1500V	
Junction Box	IP68	
Frame	Aluminum Alloy	
Cable	4mm²/300mm	
Connector	MC4 Compatible	
Application Level	Class A	
Packaging	31/36pcs/Pallet, 620/720pcs/40HQ container	36pcs/Pallet, 720pcs/40HQ container

Electrical Parameters AT STC

MODULE TYPE	JTH550P-144M	JTH580P-144M
Maximum Power (Pmax/W)	550	580
Module Efficiency (%)	21.30%	22.45%
Open Circuit Voltage (Voc/V)	49.95	51.40
Short Circuit Current (Isc/A)	14.05	14.35
Voltage at Max.Power (Vmp/V)	41.97	42.87
Current at Max.Power (Imp/A)	13.11	13.53
Power Tolerrance	0~±3%	

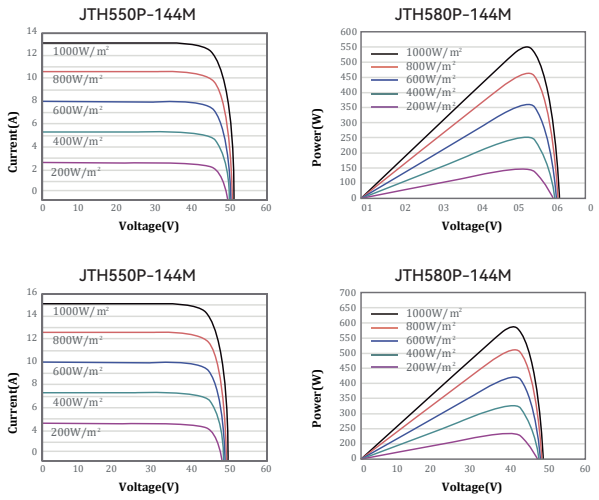
STC: Irradiance 1000W/m² Cell Temperature 25℃ AM1.5

Electrical Parameters AT NOCT

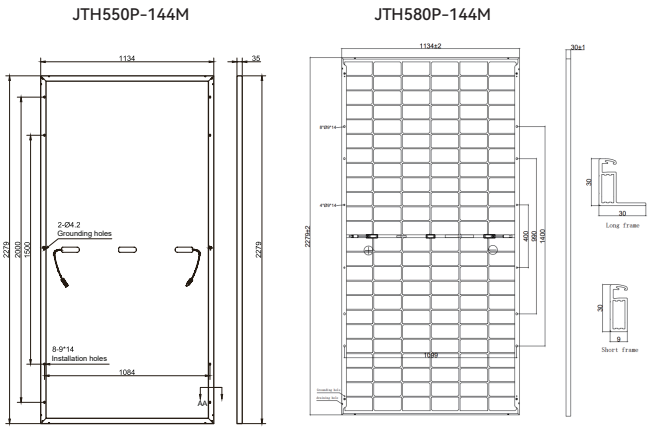
MODULE TYPE	JTH550P-144M	JTH580P-144M
Maximum Power (Pmax/W)	414.0	436
Open Circuit Voltage (Voc/V)	46.63	48.95
Short Circuit Current (Isc/A)	11.17	11.57
Voltage at Max.Power (Vmp/V)	39.31	40.44
Current at Max.Power (Imp/A)	10.53	10.82

NOCT: Irradiance 800W/m² Ambient Temperature 20℃ Wind at 1m/S AM1.5

Characteristics



Mechanical Diagrams



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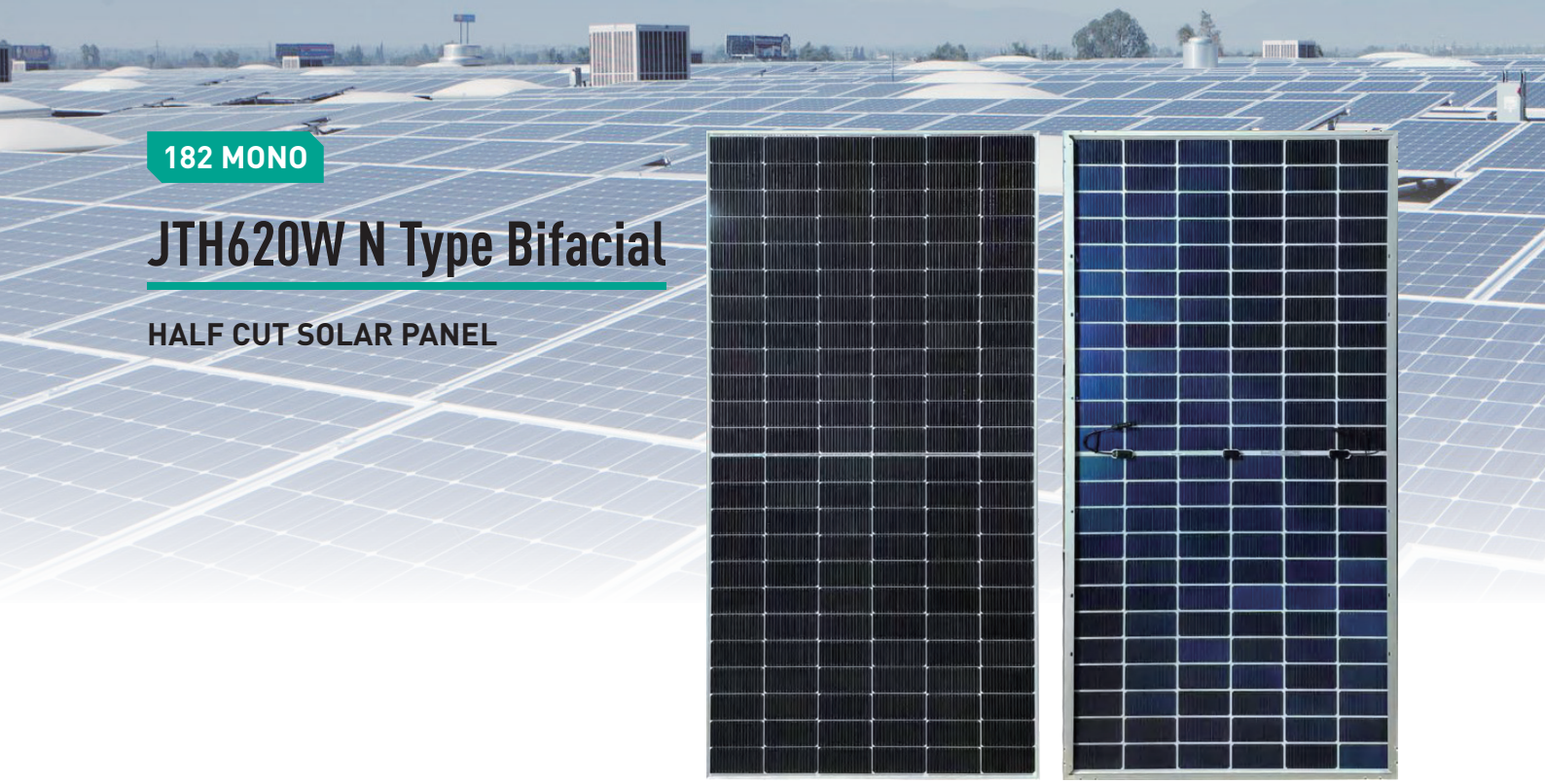

182 MONO

JTH620W N Type Bifacial

HALF CUT SOLAR PANEL

Applicable Scenarios

Solar Energy Storage System

Solar Pump System

Home Solar System

Factory Solar System

Efficient and Flexibleos
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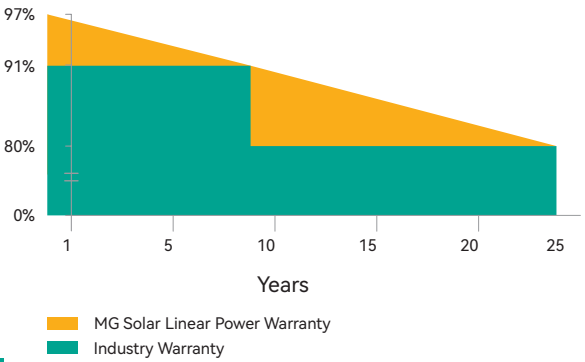
First - Class Quality Assurance

5-year warranty for material and technology
25-year linear power ouput warranty



Comprehensive Certificates

- IEC61215, IEC61730
- ISO9001: 2015 Quality management systems
- ISO14001: 2015 Environmental management systems
- ISO45001: 2015 Occupational health and safety management systems

Mechanical Parameters

CELL MODEL	182mm Topcan N type
Weight	32.5kg
Dimensions	2384*1134*30mm
Cell Amount	66*2(132pcs)
Maximum System Voltage	1500V
Junction Box	IP68
Frame	Aluminum Alloy
Cable	4mm²/300mm
Connector	MC4 Compatible
Application Level	Class A
Packaging	36pcs/Pallet, 720pcs/40HQ container

Electrical Parameters AT STC

MODULE TYPE	JTH620P-132M
Maximum Power (Pmax/W)	620
Module Efficiency (%)	23%
Open Circuit Voltage (Voc/V)	48.30
Short Circuit Current (Isc/A)	15.95
Voltage at Max.Power (Vmp/V)	41.55
Current at Max.Power (Imp/A)	14.93
Power Tolerrance	0~±3%

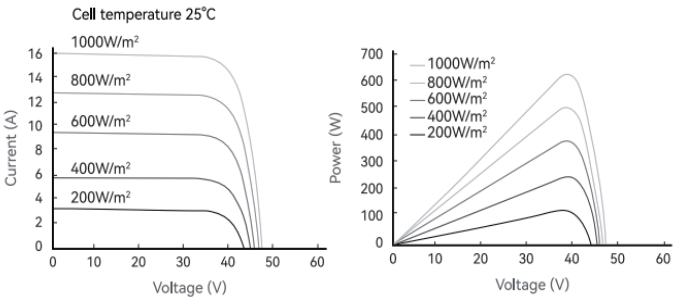
STC: Irradiance 1000W/m² Cell Temperature 25℃ AM1.5

Electrical Parameters AT NOCT

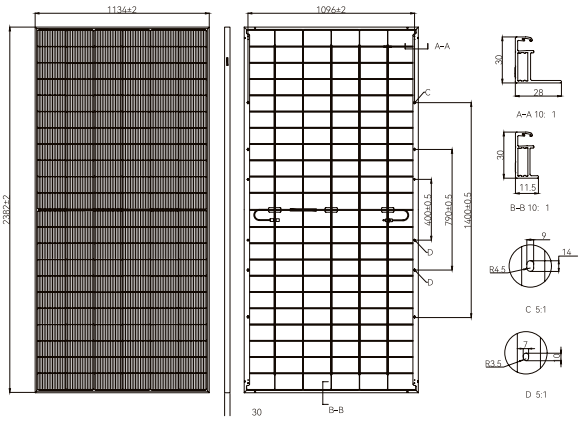
MODULE TYPE	JTH620P-132M
Maximum Power (Pmax/W)	466
Open Circuit Voltage (Voc/V)	45.89
Short Circuit Current (Isc/A)	12.88
Voltage at Max.Power (Vmp/V)	38.68
Current at Max.Power (Imp/A)	12.05

NOCT: Irradiance 800W/m² Ambient Temperature 20℃ Wind at 1m/S AM1.5

Characteristics



Mechanical Diagrams



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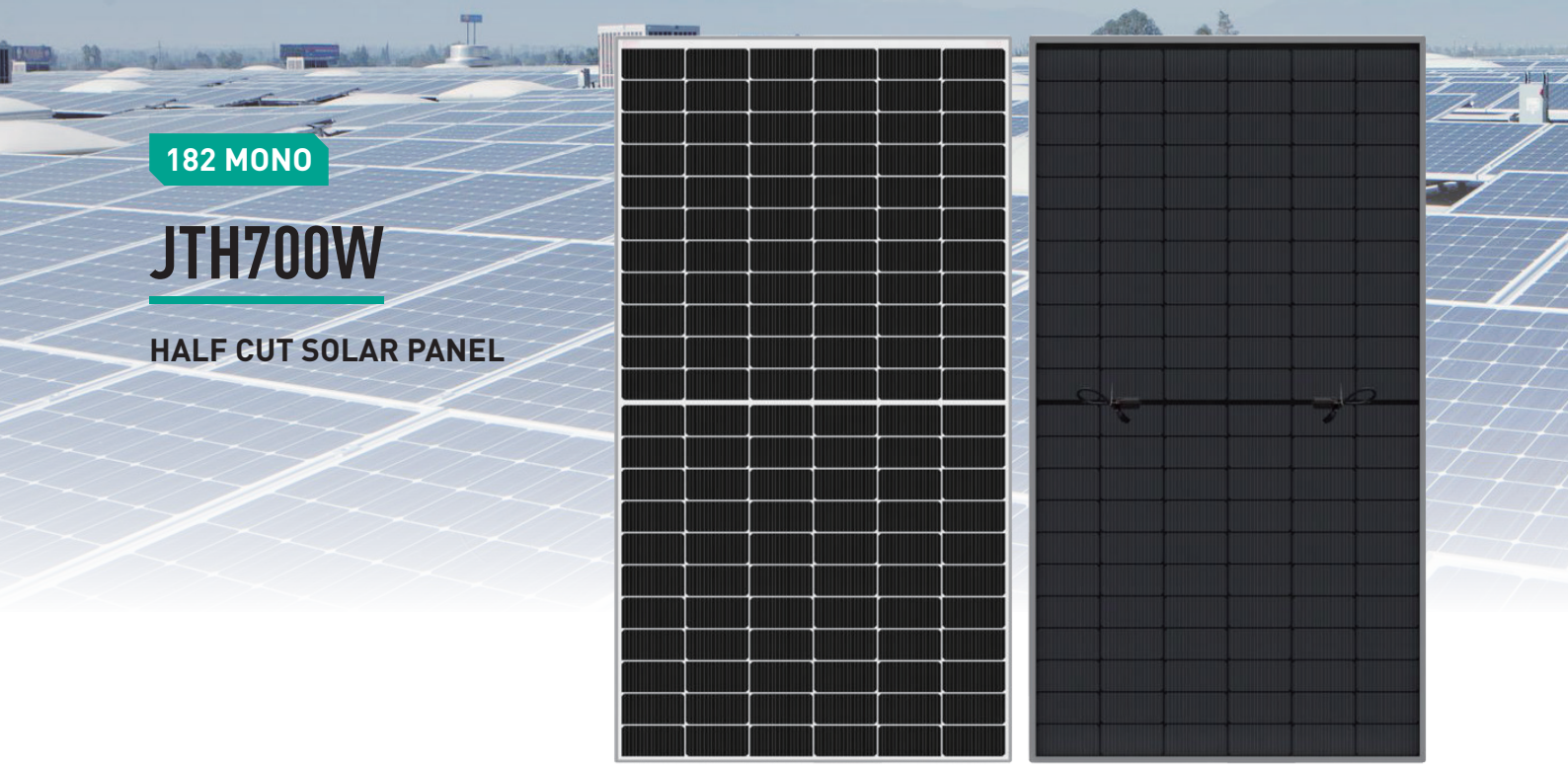
Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills, and please carefully read the safety and installation instructions before using our PV modules.



182 MONO

JTH700W

HALF CUT SOLAR PANEL

Applicable Scenarios

Solar Energy Storage System

Solar Pump System

Home Solar System

Factory Solar System

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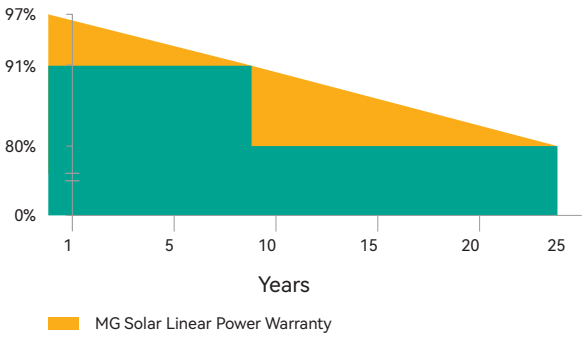


Comprehensive Certificates

- IEC61215, IEC61730
- ISO9001: 2015 Quality management systems
- ISO14001: 2015 Environmental management systems
- ISO45001: 2015 Occupational health and safety management systems

Mechanical Parameters

CELL MODEL	210mm HJT
Weight	38.7kg
Dimensions	2384*1303*35mm
Cell Amount	66*2(132pcs)
Maximum System Voltage	1500V
Junction Box	IP68
Frame	Aluminum Alloy
Cable	4mm²/300mm
Connector	MC4 Compatible
Application Level	Class A

Electrical Parameters AT STC

MODULE TYPE	JTH700N-132M
Maximum Power (Pmax/W)	700
Module Efficiency (%)	22.53%
Open Circuit Voltage (Voc/V)	50.13
Short Circuit Current (Isc/A)	17.43
Voltage at Max.Power (Vmp/V)	42.10
Current at Max.Power (Imp/A)	14.93
Power Tolerrance	0~±3%

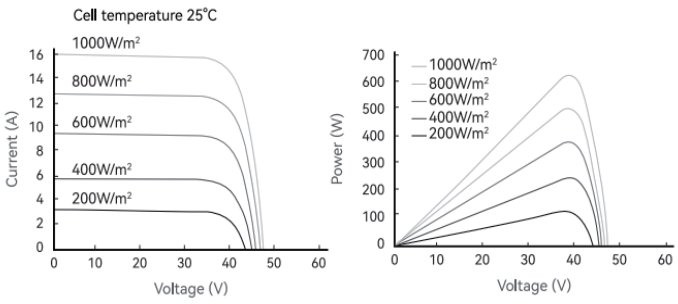
STC: Irradiance 1000W/m² Cell Temperature 25℃ AM1.5

Electrical Parameters AT NOCT

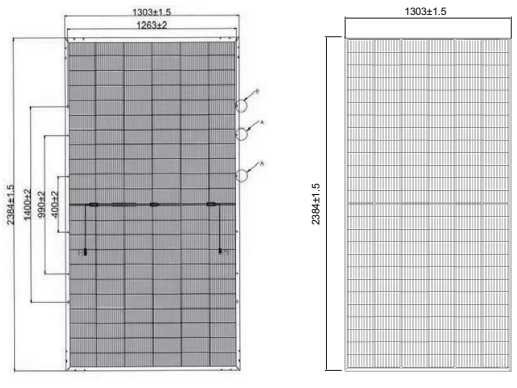
MODULE TYPE	JTH700N-132M
Maximum Power (Pmax/W)	770
Open Circuit Voltage (Voc/V)	50.13
Short Circuit Current (Isc/A)	19.17
Voltage at Max.Power (Vmp/V)	42.10
Current at Max.Power (Imp/A)	18.29

NOCT: Irradiance 800W/m² Ambient Temperature 20℃ Wind at 1m/S AM1.5

Characteristics



Mechanical Diagrams



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