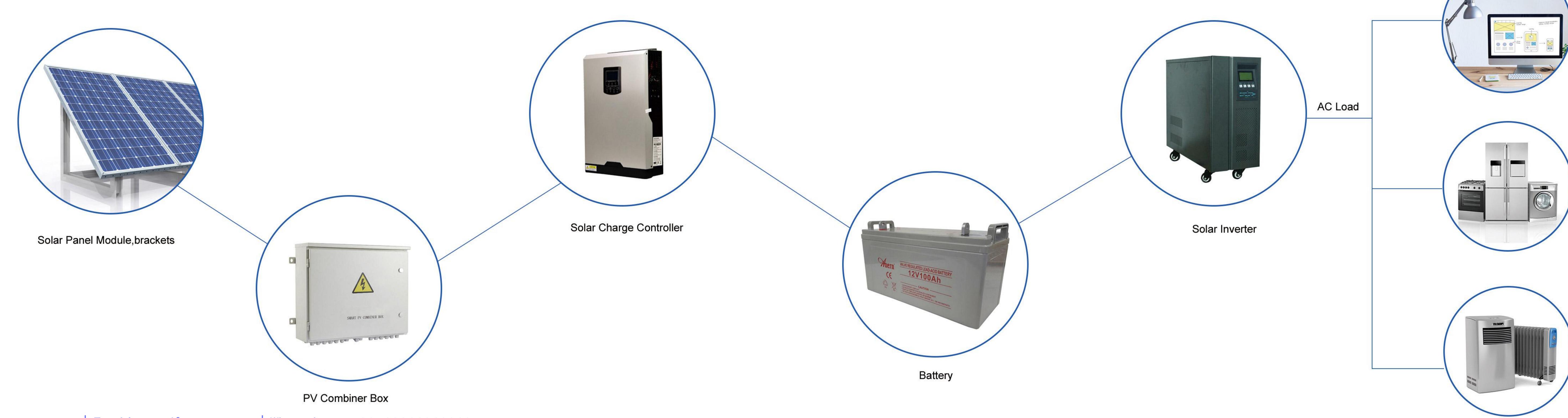




SOLAR POWER SYSTEM

10 YEARS OF EXPERIEN CE IN SOLAR SOLUTION







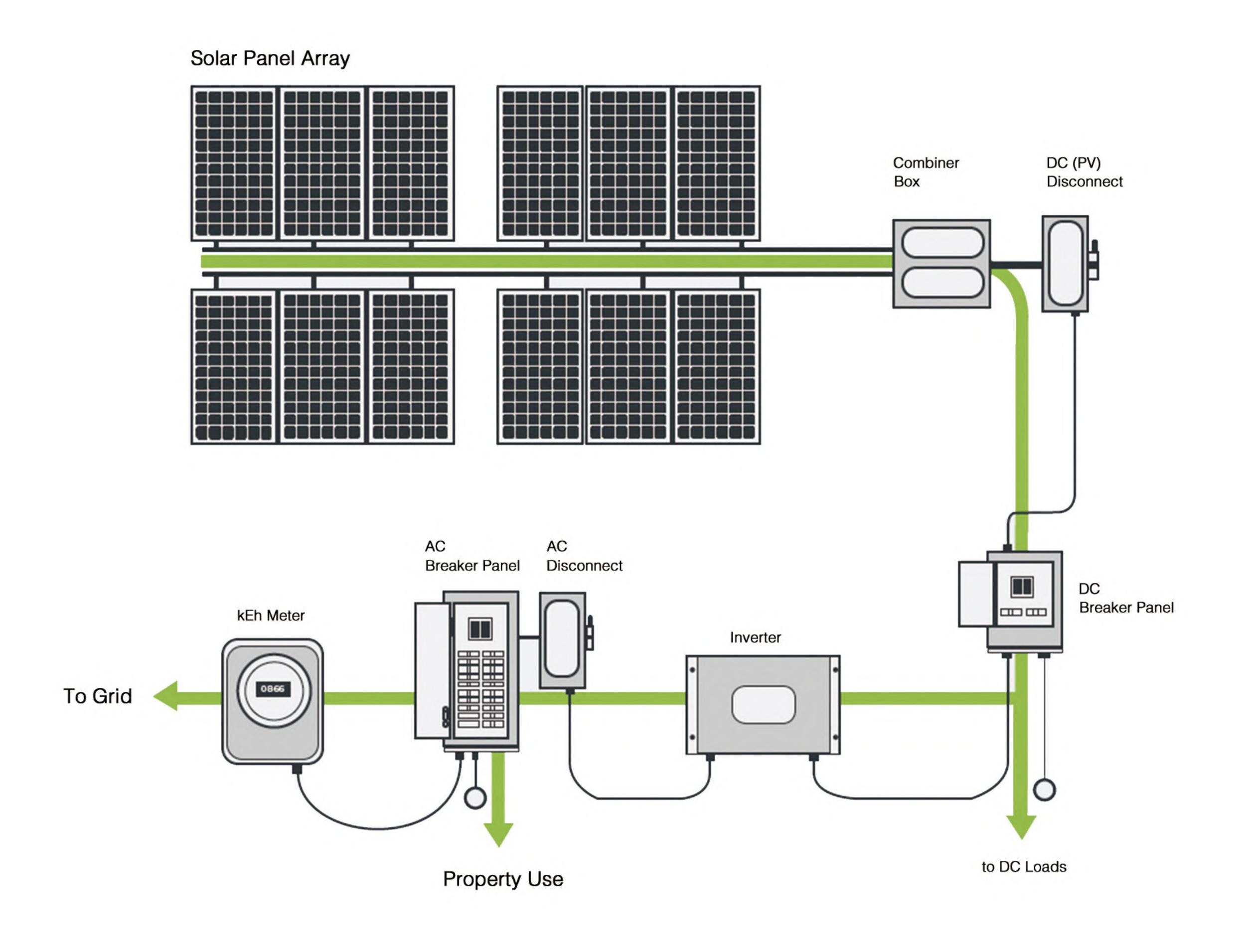




GRID-TIED SOLAR POWER SYSTEMS

The grid-tied solar power system is the most common type of solar power system. These systems are connected to your local electric grid as well as your home. The systems provide your power needs throughout the day and if your system produces more, the extra solar power will be fed back to the utility where it can be used by your neighbors and others.





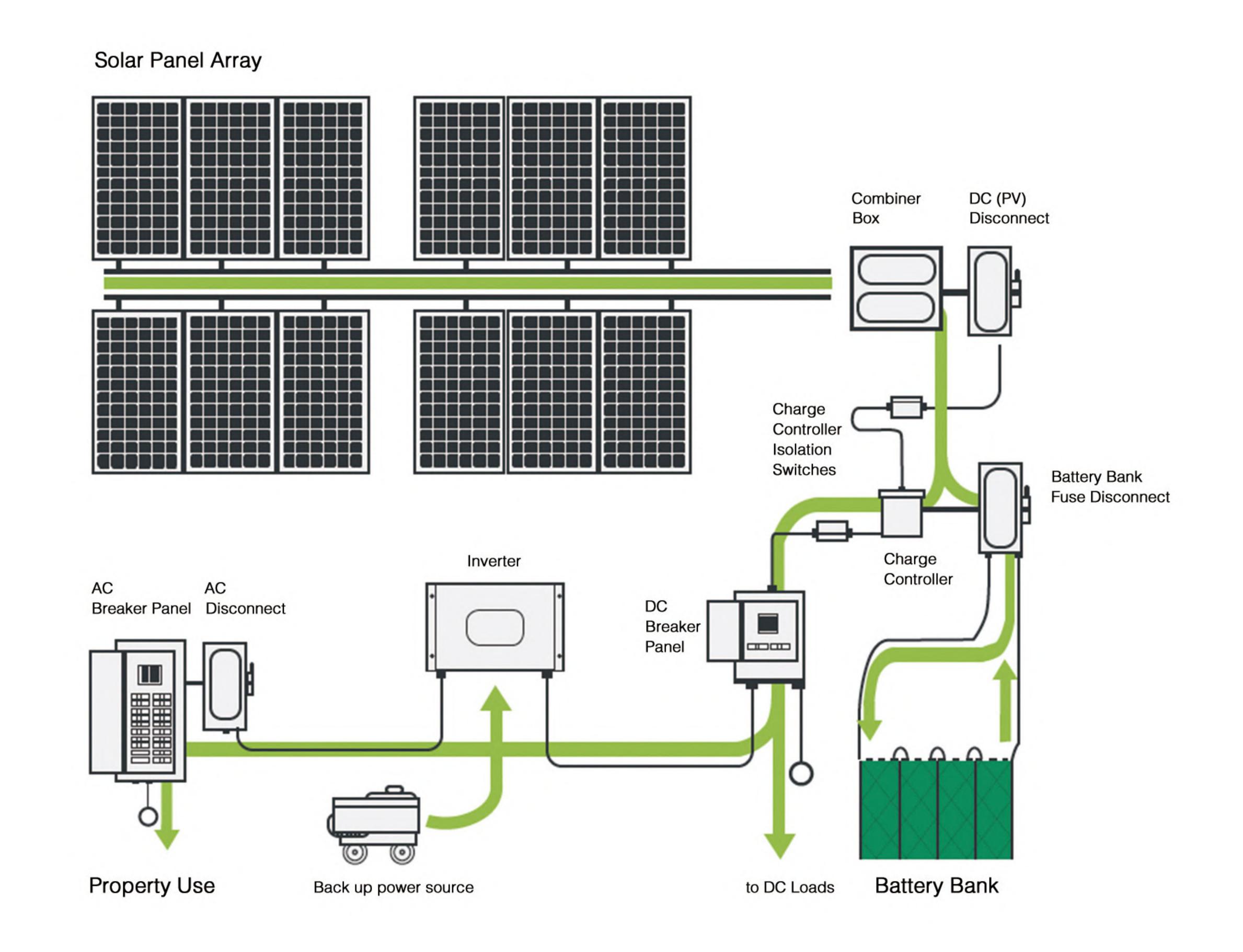




OFF-GRID RESIDENTIAL SOLAR POWER SYSTEM

Stand-alone solar power systems are incredibly useful in areas with limited (or completely unavailable) utilities. Using a completely off grid solar systems requires some extra equipment in the way of batteries and/or other energy storage devices, but the result is complete independence from any outside utility provider. One of the pitfalls of the off-grid solar system is that you often waste unused energy, as battery storage is limited. In certain places, there are also regulations dictating that residences and businesses must be tied into a grid. Going off-grid means complete utility freedom, but if this is the route you take, it's best to invest in some heavy-duty solar storage devices and to double check all local laws and regulations to make sure off-grid is an option for your area.





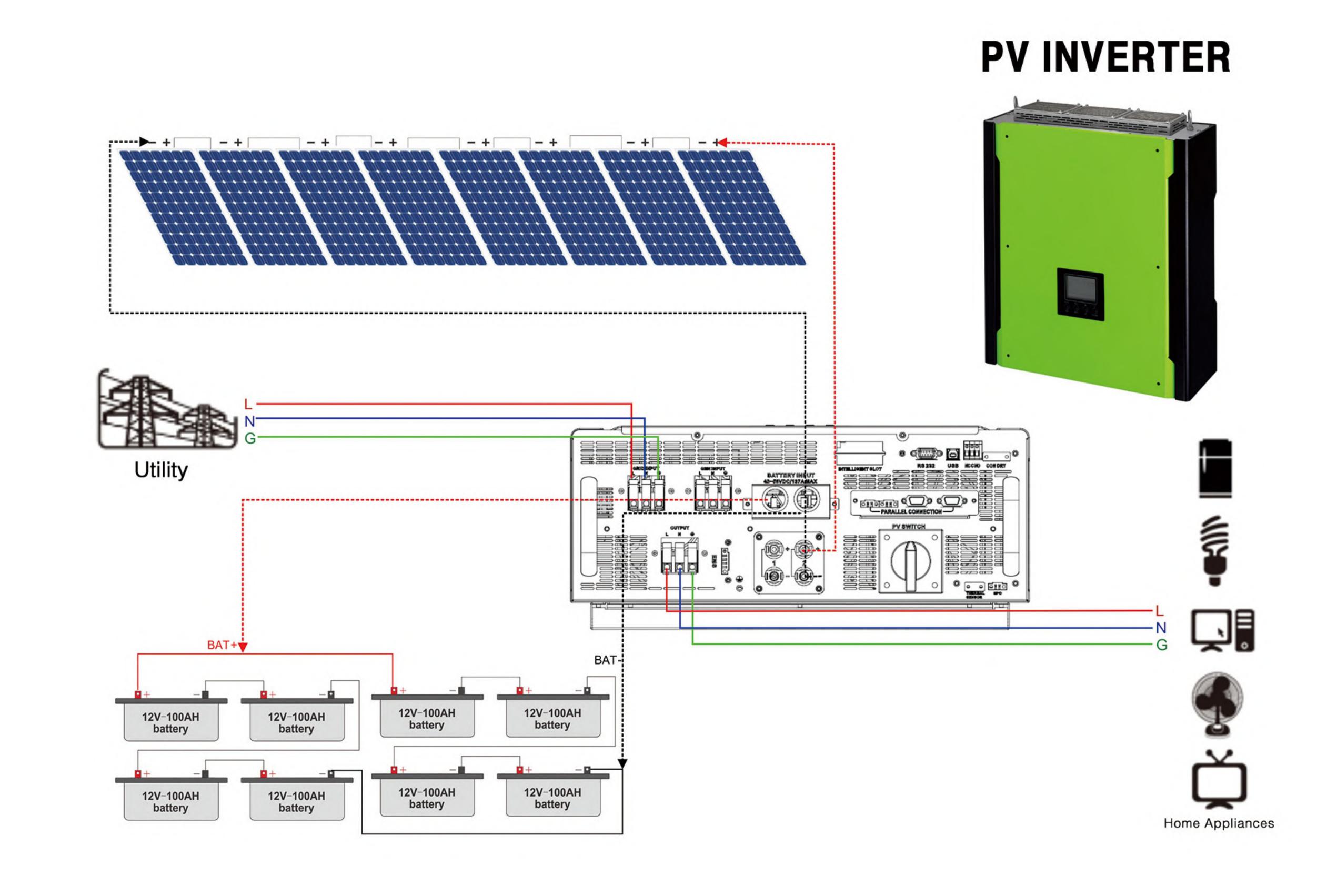




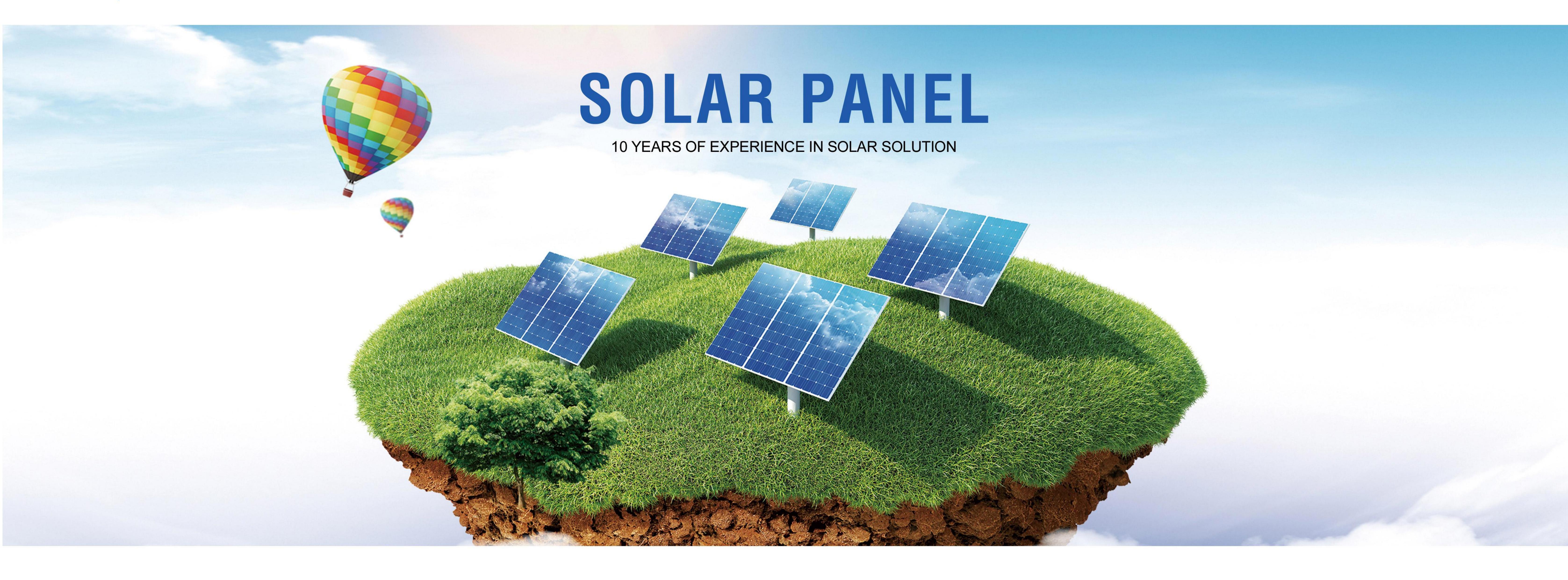


Though it does require additional investment in the form of batteries, it is very possible to get the best of both worlds by building a solar system that only uses traditional utility power as a back-up. In this scenario, rather than funneling, your excess solar energy back into a power grid, you store it yourself. If you plan well and create enough storage, you can put yourself in a position of only using the power grid for cases of extreme energy use or very limited sunlight availability. The hybrid option is more and more realistic with the onset of new storage technology including the Battery.





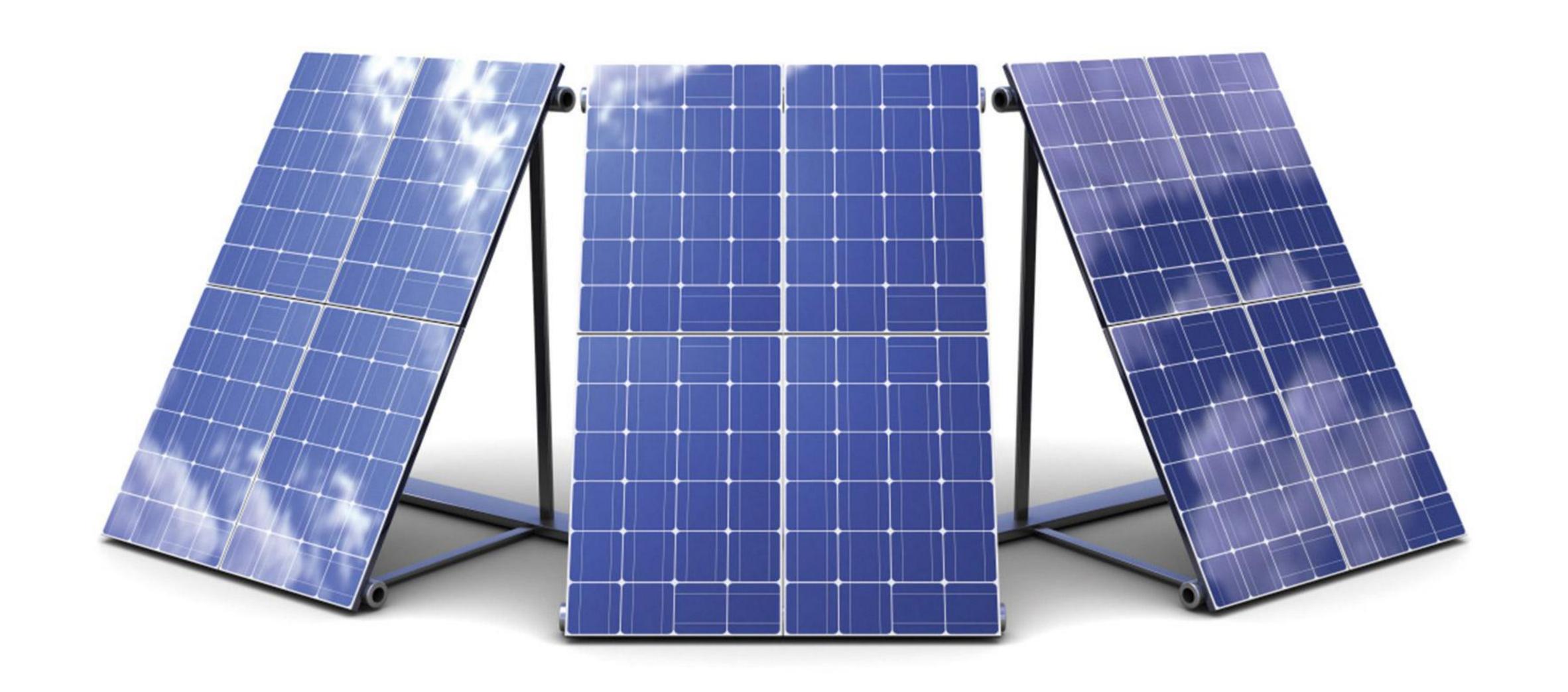






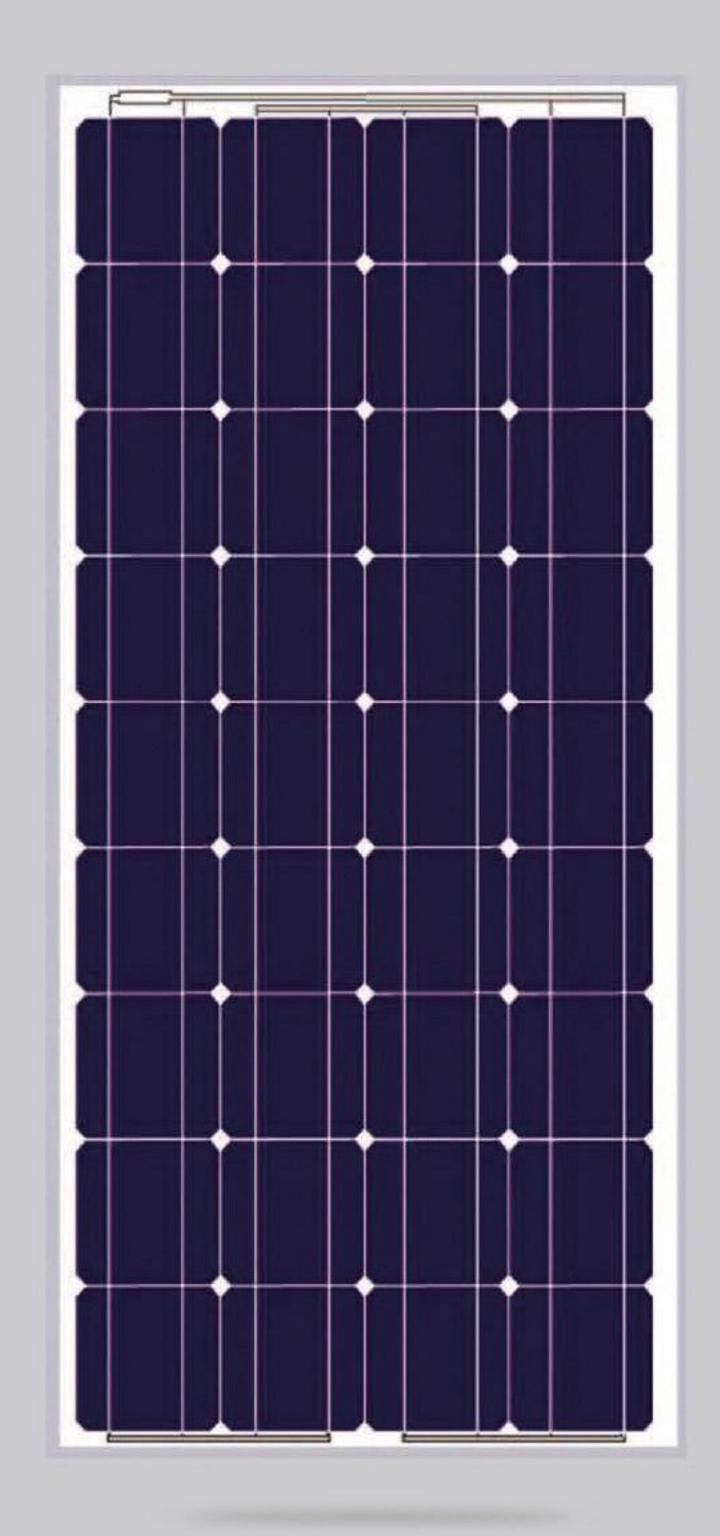
MONO & POLY TYPE SOLAR PANEL

Adopt most advanced PERC cells technology, realizing higher module conversion efficiency. Black silicon cells are used, with lower reflection, so as to improve power generation output. The module reaches wind resistance of 2400Pa, and snow pressure resistance of 5400Pa. By adopting high-grade raw materials and advanced production process, it ensures the module to be long-lasting, safe and stable operation.









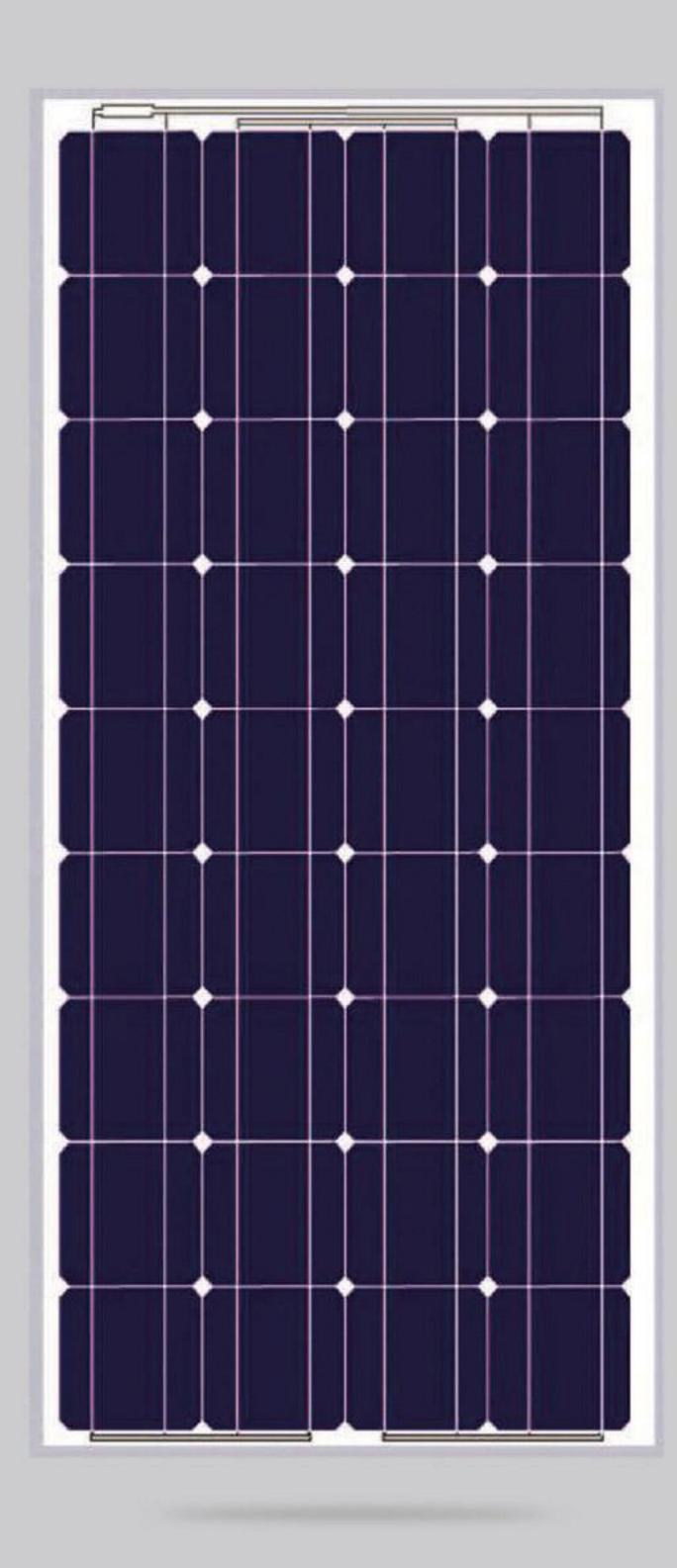
POSITIVE TOLERANCE

10 YEARS

PRODUCT WARRANTY

25 YEARS

PROGRESSIVE WARRANTY



+3%

POSITIVE TOLERANCE

10 YEARS

PRODUCT WARRANTY

25 YEARS

PROGRESSIVE WARRANTY

Monocrystalline Solar Panel (100W)

- Reliable Quality
 - Positive power tolerance:0~+5W
 - 100% EL double-inspection ensures modules are defects free
 - Modules binned by current to improve system Performance
 - Potential Induced Degradation(PID)Resistant
- 2 Key Features



Monocrystalline modules designed for commercial and solar farm frid-tied applications



High power output and highest conversion efficiency



Anti-reflective and anti-soiling surface reduces power loss from dirt and dust



environments

Outstanding performance in low-light irradiance



Excellent mechanical load resistance: Certified to withstand high wind loads (2400Pa) and snow loads (5400Pa)



High salt and ammonia resistance certified by TÜV NORD

Mechanical Parameters

Dimensions(LxWxH)	1200*540*30
Weight(kg)	7.5
Cable Length(mm)	900
Cable cross section size(mm²)	4
No.of cells and connections	36(9x4)
Frame	Anodized aluminum alloy
Packing configuration	25/21pcs/carton

Working Condition

Maximum System voltage	DC1000(TUV)
Operating Temp	-45°C+80°C
Junction Box	IP65/IP67 Reted
Static Loading	≤5400Pa
Maximum Serise Fuse(A)	15A
NOCT	47±2°C
Application Class	Class A

Electrical Parameters

Rated Maximum Power at STC(W)	100W	Working Power Voltage(Vmp/P)	18.6V
Working Power Current(Imp/A)	5.4A	Open Circuit Voltage(Voc/v)	22.6V
Short Circuit current(Isc/a)	6.08A	Power Tolerance	0 to +3%
Current Temperature Coefficient(Isc)	0.04%/°C	Voltage Temperature Coefficient(Voc)	-0.30%/°C
Power Temperature Coefficient(Pmp)		-0.39%/°C	

Monocrystalline Solar Panel (150W)

Reliable Quality

- Positive power tolerance:0~+5W
- 100% EL double-inspection ensures modules are defects free
- Modules binned by current to improve system Performance
- Potential Induced Degradation(PID)Resistant

2 Key Features



Monocrystalline modules designed for commercial and solar farm frid-tied applications



High power output and highest conversion efficiency



Anti-reflective and anti-soiling surface reduces power loss from dirt and dust



Excellent mechanical load resistance: Certified to withstand

Outstanding performance in low-light irradiance environments



high wind loads(2400Pa) and snow loads(5400Pa)



High salt and ammonia resistance certified by TÜV NORD

Mechanical	Parameters	

Dimensions(LxWxH)	1480*670*35
Weight(kg)	11.5
Cable Length(mm)	900
Cable cross section size(mm²)	4
No.of cells and connections	36(9x4)
Frame	Anodized aluminum alloy
Packing configuration	25/21pcs/carton

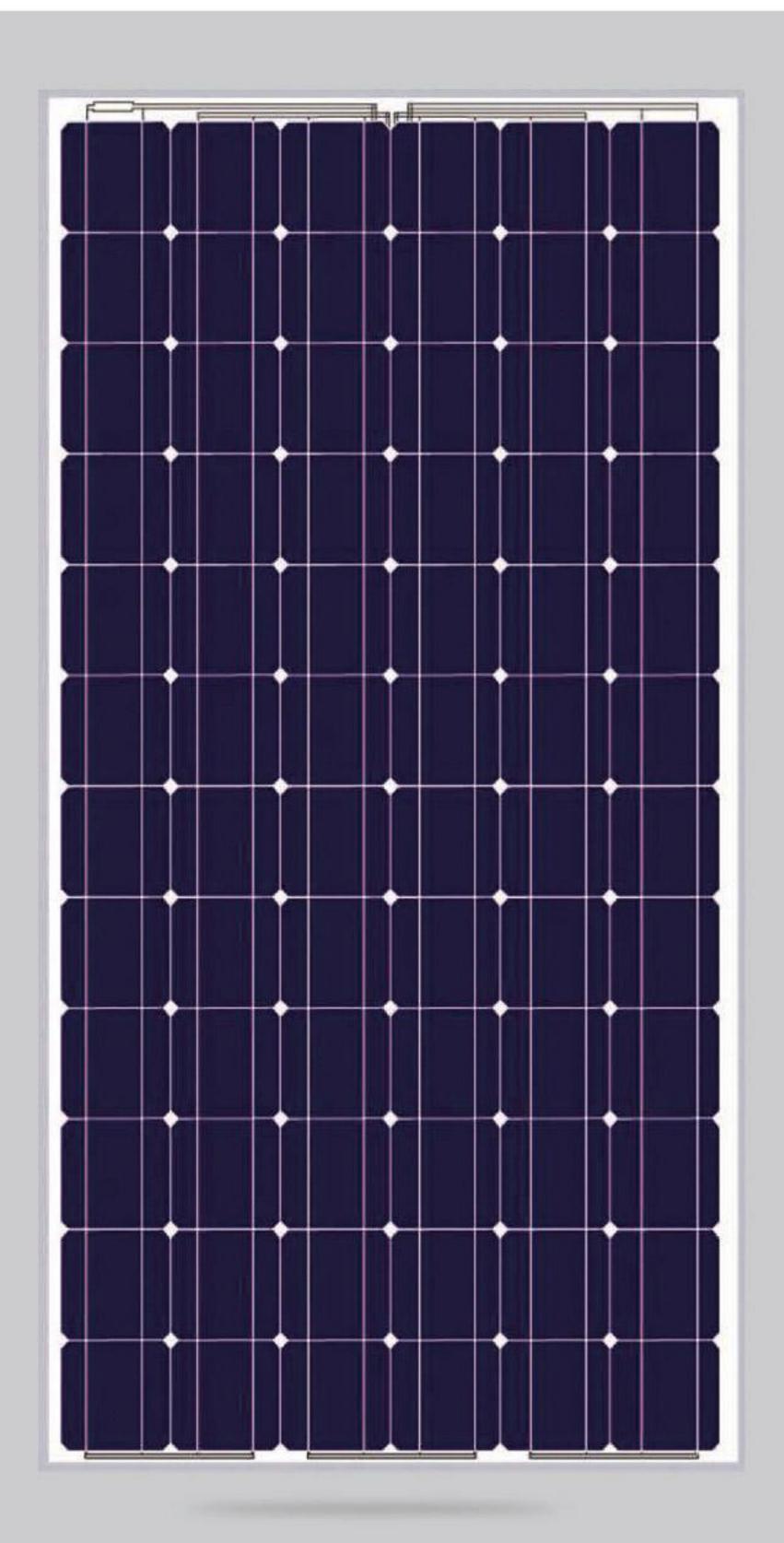
Working Condition

Maximum System voltage	DC1000(TUV)
Operating Temp	-45°C+80°C
Junction Box	IP65/IP67 Reted
Static Loading	≤5400Pa
Maximum Serise Fuse(A)	15A
NOCT	47±2°C
Application Class	Class A

Power Temperature Coefficient(Pmp)	5207 (18.200.000)	-0.39%/°C	
Current Temperature Coefficient(Isc)	0.04%/°C	Voltage Temperature Coefficient(Voc)	-0.30%/°
Short Circuit current(Isc/a)	9.1A	Power Tolerance	0 to +3%
Working Power Current(Imp/A)	8.34A	Open Circuit Voltage(Voc/v)	22V
Rated Maximum Power at STC(W)	150W	Working Power Voltage(Vmp/P)	18V







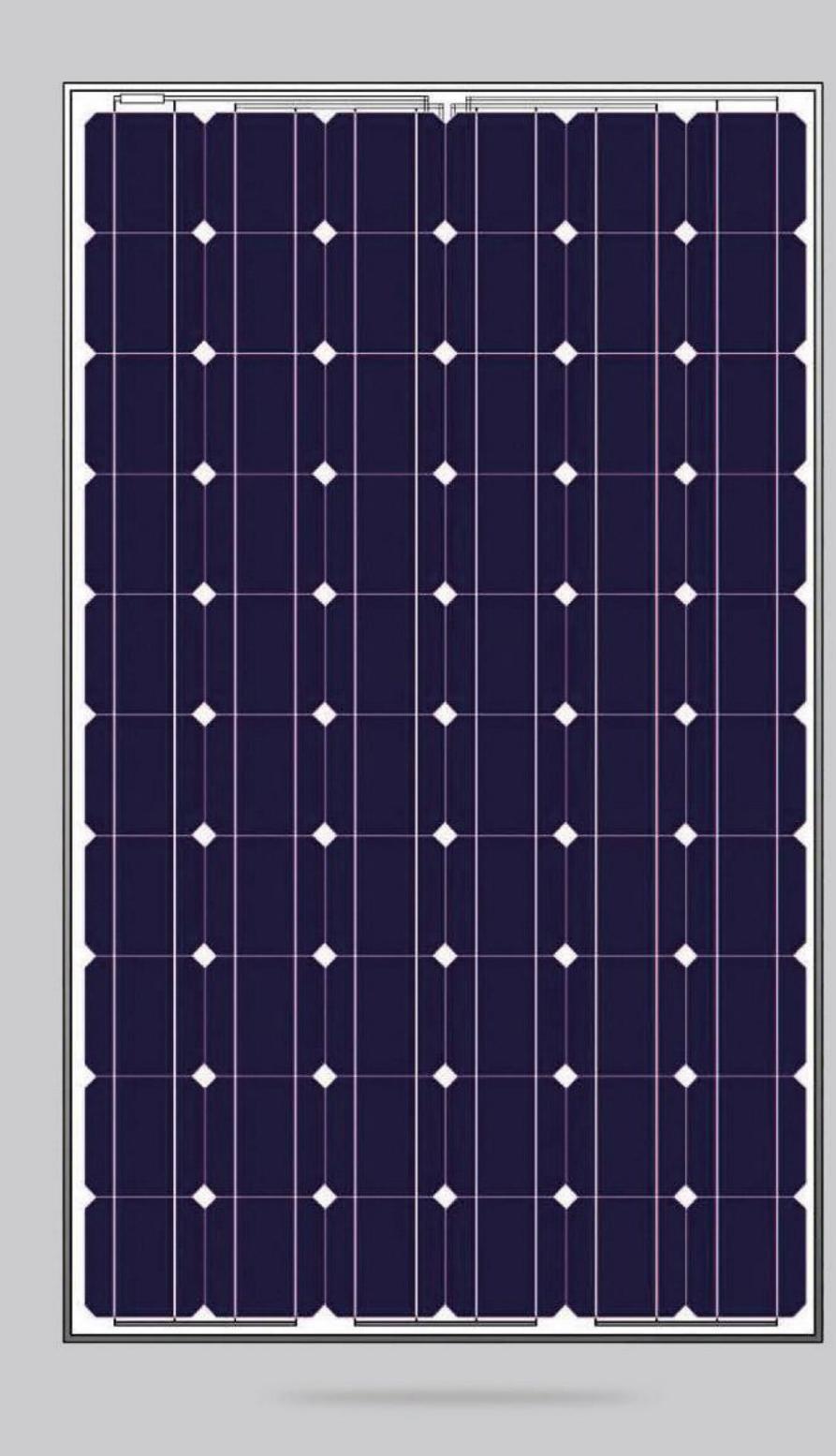
POSITIVE TOLERANCE

10 YEARS

PRODUCT WARRANTY

25 YEARS

PROGRESSIVE WARRANTY



+3%

POSITIVE TOLERANCE

10 YEARS

PRODUCT WARRANTY

25 YEARS

PROGRESSIVE WARRANTY

Monocrystalline Solar Panel (200W)

- Reliable Quality
 - Positive power tolerance:0~+5W
 - 100% EL double-inspection ensures modules are defects free
 - Modules binned by current to improve system Performance
 - Potential Induced Degradation(PID)Resistant

2 Key Features



Monocrystalline modules designed for commercial and solar farm frid-tied applications



High power output and highest conversion efficiency



Anti-reflective and anti-soiling surface reduces power loss from dirt and dust

Outstanding performance in low-light irradiance



environments

Excellent mechanical load resistance: Certified to withstand

high wind loads(2400Pa) and snow loads(5400Pa)



High salt and ammonia resistance certified by TÜV NORD

Mechanical Parameters

I	Dimensions(LxWxH)	1580*808*35
	Weight(kg)	15
	Cable Length(mm)	900
	Cable cross section size(mm²)	4
1	No.of cells and connections	72(12x6)
	Frame	Anodized aluminum alloy
	Packing configuration	25/21pcs/carton

Working Condition

Maximum System voltage	DC1000(TUV)
Operating Temp	-45°C+80°C
Junction Box	IP65/IP67 Rated
Static Loading	≤5400Pa
Maximum Series Fuse(A)	15A
NOCT	47±2°C
Application Class	Class A

Electrical Parameters

7	Current Temperature Coefficient(Isc)	0.04%/°C	Voltage Temperature Coefficient(Voc)	-0.30%/°C
,	Short Circuit current(Isc/a)	5.88A	Power Tolerance	0 to +3%
,	Working Power Current(Imp/A)	5.41A	Open Circuit Voltage(Voc/v)	45.1V
F	Rated Maximum Power at STC(W)	200W	Working Power Voltage(Vmp/P)	37V

Monocrystalline Solar Panel (265W)

Reliable Quality

- Positive power tolerance:0~+5W
- 100% EL double-inspection ensures modules are defects free
- Modules binned by current to improve system Performance
- Potential Induced Degradation(PID)Resistant

2 Key Features



Monocrystalline modules designed for commercial and solar farm frid-tied applications



High power output and highest conversion efficiency



Anti-reflective and anti-soiling surface reduces power loss from dirt and dust



Evaclost machanical load registeracy. Cartified to withotond

Outstanding performance in low-light irradiance environments



Excellent mechanical load resistance:Certified to withstand high wind loads(2400Pa) and snow loads(5400Pa)



High salt and ammonia resistance certified by TÜV NORD

Mechanical Parameters	
Dimensions(LxWxH)	1640*992*35
Weight(kg)	18
Cable Length(mm)	900

Cable Length(mm)	900
Cable cross section size(mm²)	4
No.of cells and connections	60(10x6)
Frame	Anodized aluminum alloy
Packing configuration	25/21pcs/carton

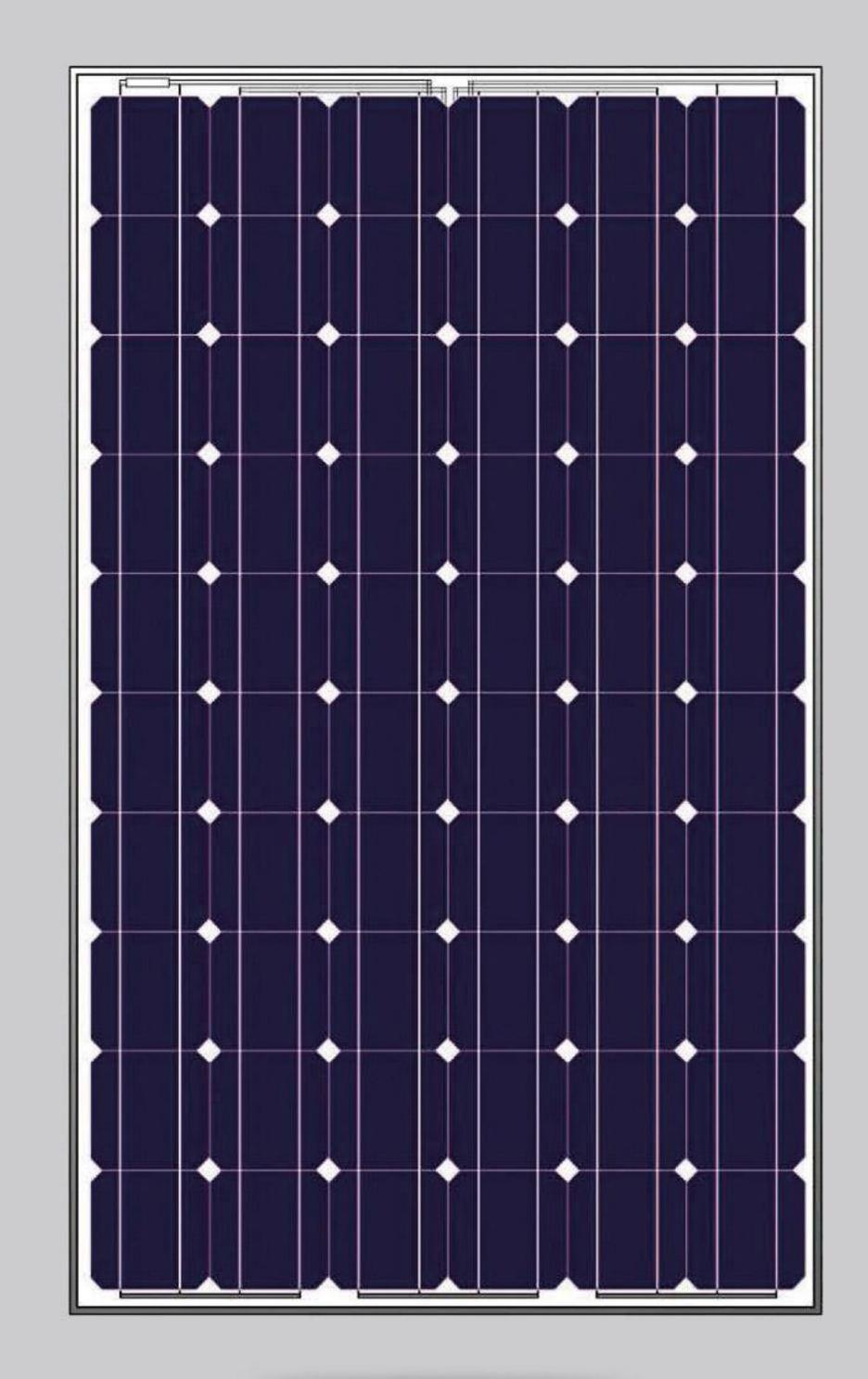
Working Condition

Maximum System voltage	DC1000(TUV)
Operating Temp	-45°C+80°C
Junction Box	IP65/IP67 Rated
Static Loading	≤5400Pa
Maximum Series Fuse(A)	15A
NOCT	47±2°C
Application Class	Class A

Rated Maximum Power at STC(W)	265W	Working Power Voltage(Vmp/P)	31.3V
Working Power Current(Imp/A)	8.47A	Open Circuit Voltage(Voc/v)	38.9V
Short Circuit current(Isc/a)	9.22A	Power Tolerance	0 to +3%
Current Temperature Coefficient(Isc)	0.04%/°C	Voltage Temperature Coefficient(Voc)	-0.30%/°C
Power Temperature Coefficient(Pmp)		-0.39%/°C	
	Working Power Current(Imp/A) Short Circuit current(Isc/a) Current Temperature Coefficient(Isc)	Working Power Current(Imp/A) 8.47A Short Circuit current(Isc/a) 9.22A Current Temperature Coefficient(Isc) 0.04%/°C	Working Power Current(Imp/A) 8.47A Open Circuit Voltage(Voc/v) Short Circuit current(Isc/a) 9.22A Power Tolerance Current Temperature Coefficient(Isc) 0.04%/°C Voltage Temperature Coefficient(Voc)







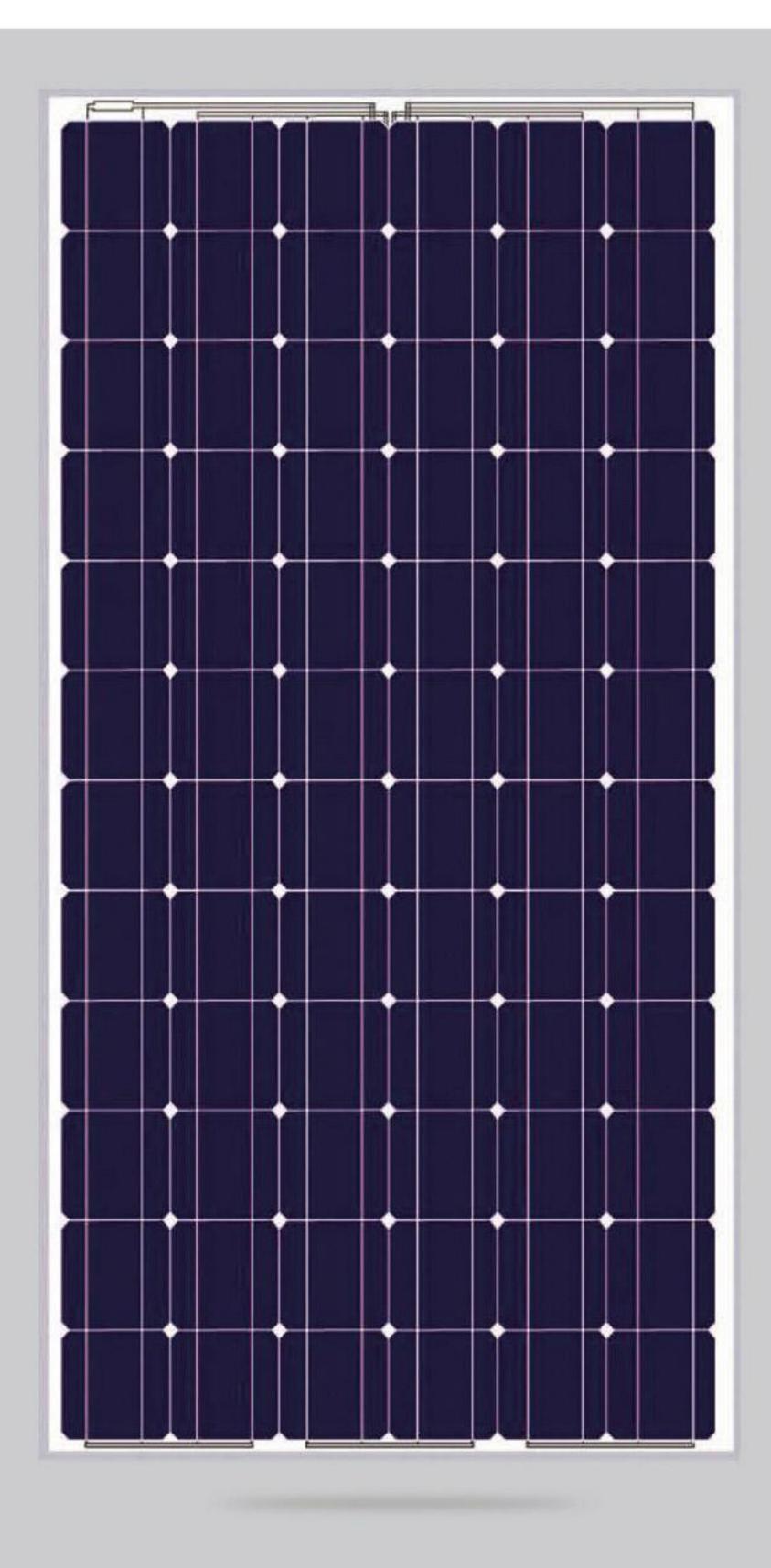
POSITIVE TOLERANCE

10 YEARS

PRODUCT WARRANTY

25 YEARS

PROGRESSIVE WARRANTY



+3%

POSITIVE TOLERANCE

10 YEARS

PRODUCT WARRANTY

25 YEARS

PROGRESSIVE WARRANTY

Monocrystalline Solar Panel (300W)

- Reliable Quality
 - Positive power tolerance:0~+5W
 - 100% EL double-inspection ensures modules are defects free
 - Modules binned by current to improve system Performance
 - Potential Induced Degradation(PID)Resistant

2 Key Features

environments



Monocrystalline modules designed for commercial and solar farm frid-tied applications



High power output and highest conversion efficiency



Anti-reflective and anti-soiling surface reduces power loss from dirt and dust

Outstanding performance in low-light irradiance

high wind loads(2400Pa) and snow loads(5400Pa)



Excellent mechanical load resistance:Certified to withstand



High salt and ammonia resistance certified by TÜV NORD

Mechanical Parameters

Dimensions(LxWxH)	1640*992*35
Weight(kg)	18
Cable Length(mm)	900
Cable cross section size(mm²)	4
No.of cells and connections	60(10x6)
Frame	Anodized aluminum alloy
Packing configuration	25/21pcs/carton

Working Condition

Maximum System voltage	DC1000(TUV)
Operating Temp	-45°C+80°C
Junction Box	IP65/IP67 Rated
Static Loading	≤5400Pa
Maximum Series Fuse(A)	15A
NOCT	47±2°C
Application Class	Class A

Electrical Parameters

Rated Maximum Power at STC(W)	300W	Working Power Voltage(Vmp/P)	32.5V
Working Power Current(Imp/A)	9.23A	Open Circuit Voltage(Voc/v)	40.3V
Short Circuit current(Isc/a)	10.03A	Power Tolerance	0 to +3%
Current Temperature Coefficient(Isc)	0.04%/°C	Voltage Temperature Coefficient(Voc)	-0.30%/°0
Power Temperature Coefficient(Pmp)		-0.39%/°C	

Monocrystalline Solar Panel (330W)

Reliable Quality

- Positive power tolerance:0~+5W
- 100% EL double-inspection ensures modules are defects free
- Modules binned by current to improve system Performance
- Potential Induced Degradation(PID)Resistant

2 Key Features



Monocrystalline modules designed for commercial and solar farm frid-tied applications



High power output and highest conversion efficiency



Anti-reflective and anti-soiling surface reduces power loss from dirt and dust



Excellent mechanical load resistance:Certified to withstand

Outstanding performance in low-light irradiance environments



Excellent mechanical load resistance: Certified to withstand high wind loads (2400Pa) and snow loads (5400Pa)



High salt and ammonia resistance certified by TÜV NORD

Mechanical Parameters	
Dimensions(LxWxH)	1956*992*40
Weight(kg)	22
Cable Length(mm)	900

Cable cross section size(mm²)

No.of cells and connections

72(12x6)

Frame

Anodized aluminum alloy

Packing configuration

25/21pcs/carton

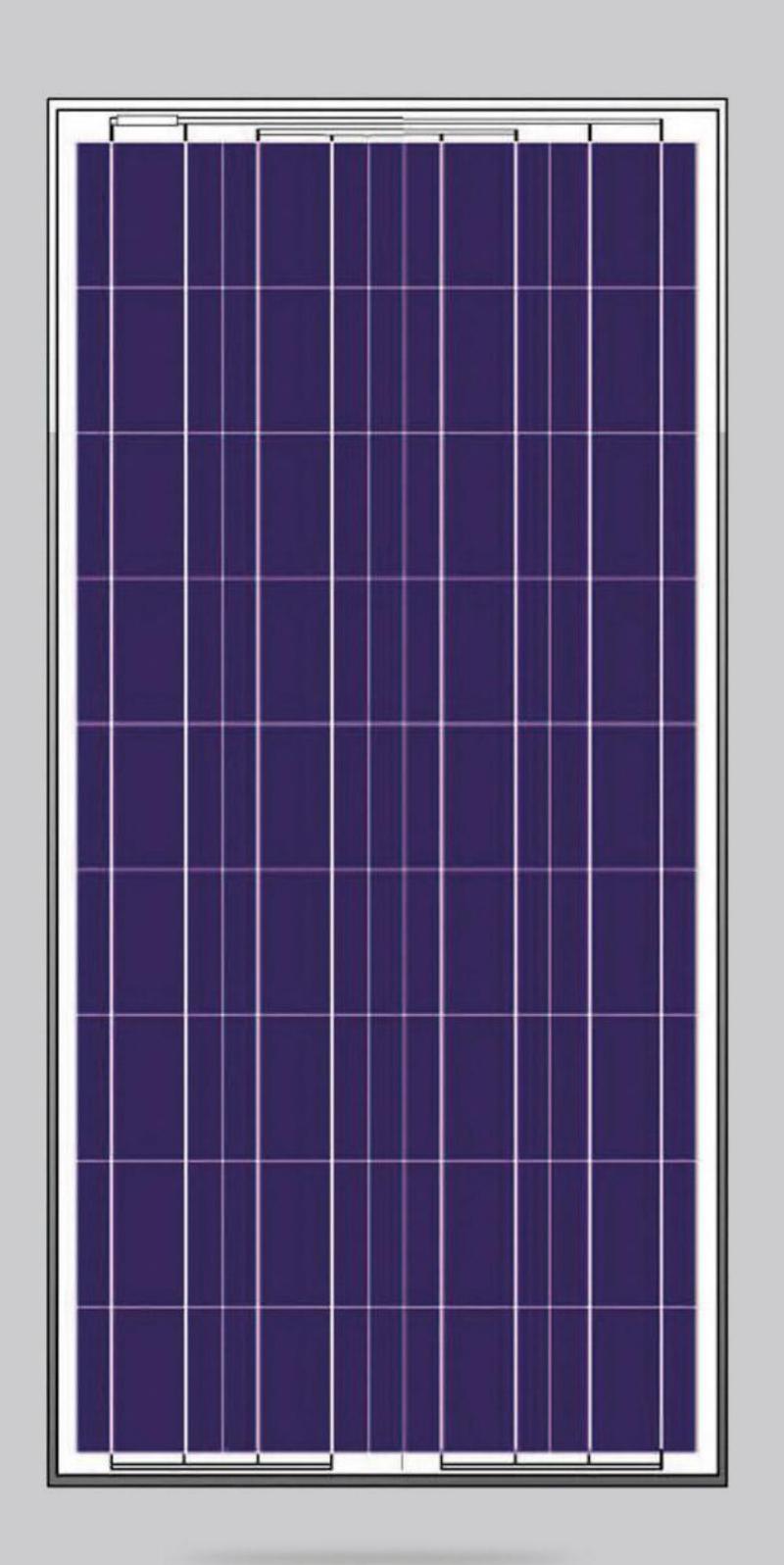
Working Condition

Maximum System voltage	DC1000(TUV)
Operating Temp	-45°C+80°C
Junction Box	IP65/IP67 Rated
Static Loading	≤5400Pa
Maximum Series Fuse(A)	15A
NOCT	47±2°C
Application Class	Class A

Rated Maximum Power at STC(W)	265W	Working Power Voltage(Vmp/P)	37.5V
Working Power Current(Imp/A)	8.8A	Open Circuit Voltage(Voc/v)	46.5V
Short Circuit current(Isc/a)	9.47A	Power Tolerance	0 to +3%
Current Temperature Coefficient(Isc)	0.04%/°C	Voltage Temperature Coefficient(Voc)	-0.30%/°
Power Temperature Coefficient(Pmp)		-0.39%/°C	







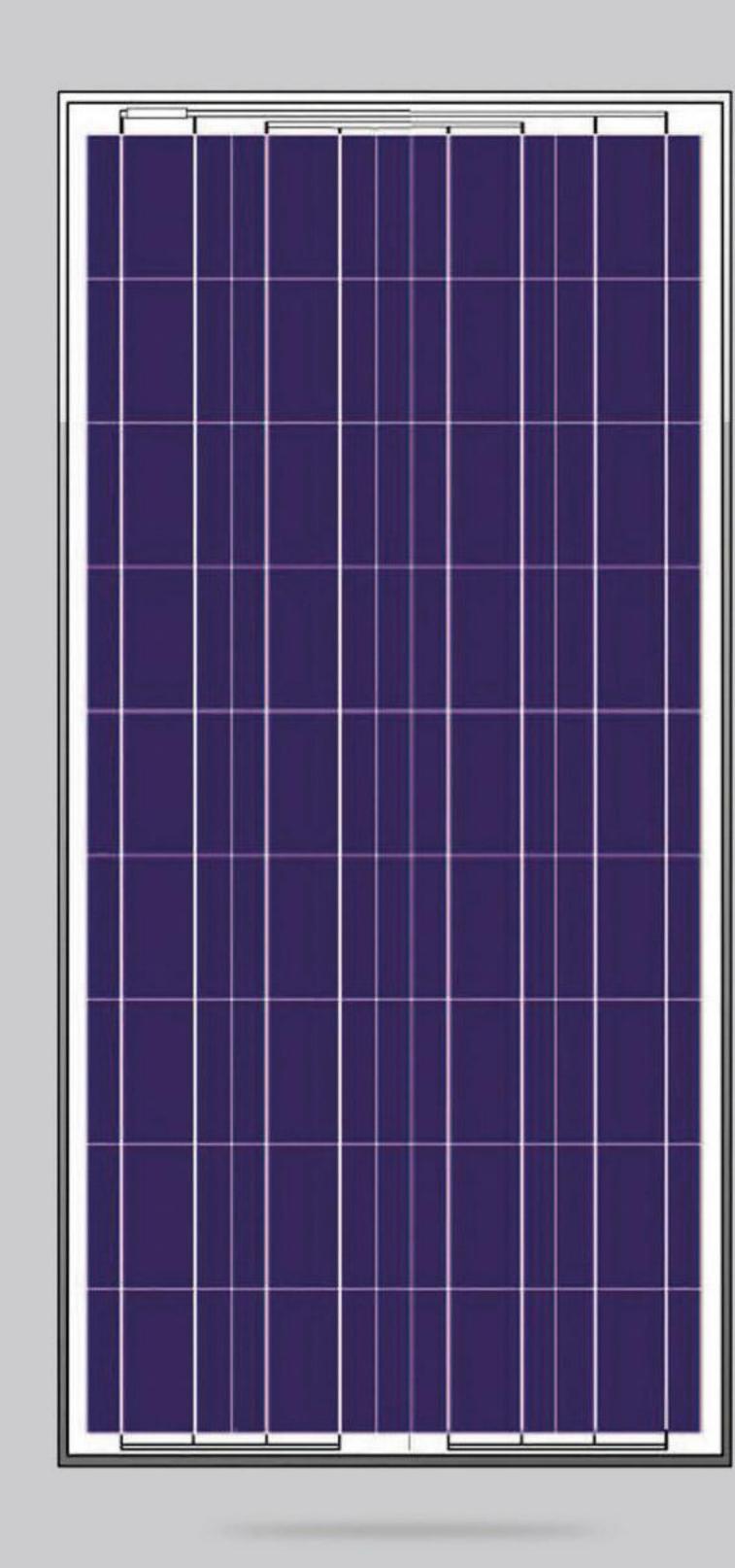
POSITIVE TOLERANCE

10 YEARS

PRODUCT WARRANTY

25 YEARS

PROGRESSIVE WARRANTY



+3%

POSITIVE TOLERANCE



PRODUCT WARRANTY



PROGRESSIVE WARRANTY

Polycrystalline Solar Panel (100W)

- Reliable Quality
 - Positive power tolerance:0~+5W
 - 100% EL double-inspection ensures modules are defects free
 - Modules binned by current to improve system Performance
 - Potential Induced Degradation(PID)Resistant

2 Key Features



Monocrystalline modules designed for commercial and solar farm frid-tied applications



High power output and highest conversion efficiency



Anti-reflective and anti-soiling surface reduces power loss from dirt and dust



environments

Outstanding performance in low-light irradiance



Excellent mechanical load resistance: Certified to withstand high wind loads (2400Pa) and snow loads (5400Pa)



High salt and ammonia resistance certified by TÜV NORD

Mechanical Parameters

Dimensions(LxWxH)	1020*670*30
Weight(kg)	8
Cable Length(mm)	900
Cable cross section size(mm²)	4
No.of cells and connections	36(9x4)
Frame	Anodized aluminum alloy
Packing configuration	25/21ncs/carton

Working Condition

Maximun	n System voltage	DC1000(TUV)
Operatin	g Temp	-45°C+80°C
Junction	Box	IP65/IP67 Rated
Static Lo	ading	≤5400Pa
Maximun	n Series Fuse(A)	15A
NOCT		47±2°C
Applicat	ion Class	Class A

Electrical Parameters

Rated Maximum Power at STC(W)	100W	Working Power Voltage(Vmp/P)	18.3V
Working Power Current(Imp/A)	5.47A	Open Circuit Voltage(Voc/v)	22.4V
Short Circuit current(Isc/a)	5.95A	Power Tolerance	0 to +3%
Current Temperature Coefficient(Isc)	0.04%/°C	Voltage Temperature Coefficient(Voc)	-0.30%/°C
Power Temperature Coefficient(Pmp)		-0.39%/°C	

Polycrystalline Solar Panel (150W)

Reliable Quality

- Positive power tolerance:0~+5W
- 100% EL double-inspection ensures modules are defects free
- Modules binned by current to improve system Performance
- Potential Induced Degradation(PID)Resistant

2 Key Features



Polycrystalline modules designed for commercial and solar farm frid-tied applications



High power output and highest conversion efficiency



Anti-reflective and anti-soiling surface reduces power loss from dirt and dust



Evaclost machanical load registeracy. Cartified to withotond

Outstanding performance in low-light irradiance environments



Excellent mechanical load resistance: Certified to withstand high wind loads (2400Pa) and snow loads (5400Pa)



High salt and ammonia resistance certified by TÜV NORD

Mechanical Parameters

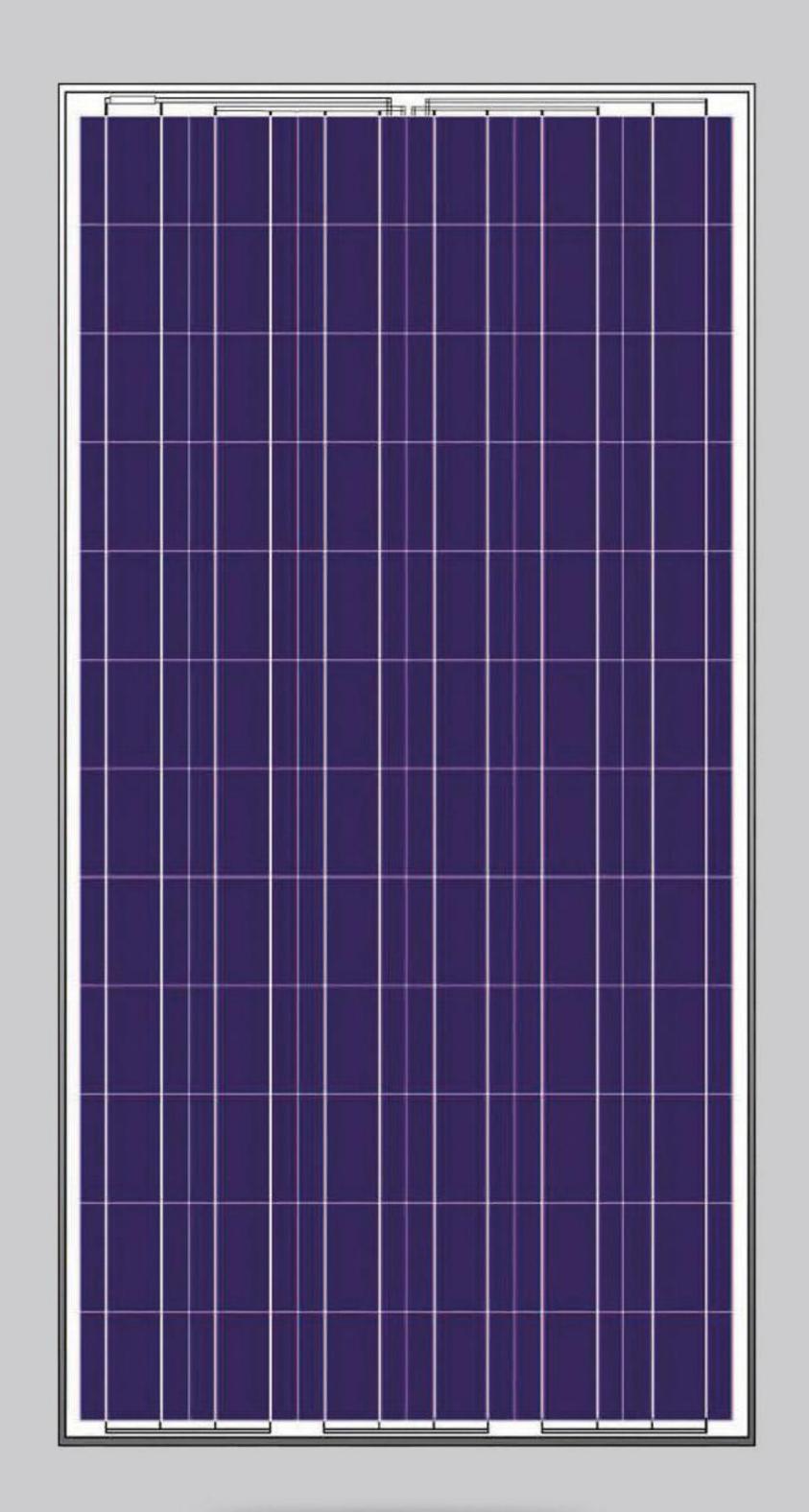
Dimensions(LxWxH)	1480*670*35
Weight(kg)	11.5
Cable Length(mm)	900
Cable cross section size(mm²)	4
No.of cells and connections	36(4x9)
Frame	Anodized aluminum alloy
Packing configuration	25/21pcs/carton

Working Condition

Maximum System voltage	DC1000(TUV)
Operating Temp	-45°C+80°C
Junction Box	IP65/IP67 Rated
Static Loading	≤5400Pa
Maximum Series Fuse(A)	15A
NOCT	47±2°C
Application Class	Class A

Power Temperature Coefficient(Pmp)		-0.39%/°C	
Current Temperature Coefficient(Isc)	0.04%/°C	Voltage Temperature Coefficient(Voc)	-0.30%/°
Short Circuit current(Isc/a)	9.01A	Power Tolerance	0 to +3%
Working Power Current(Imp/A)	8.29A	Open Circuit Voltage(Voc/v)	22.2V
Rated Maximum Power at STC(W)	150W	Working Power Voltage(Vmp/P)	18.1V





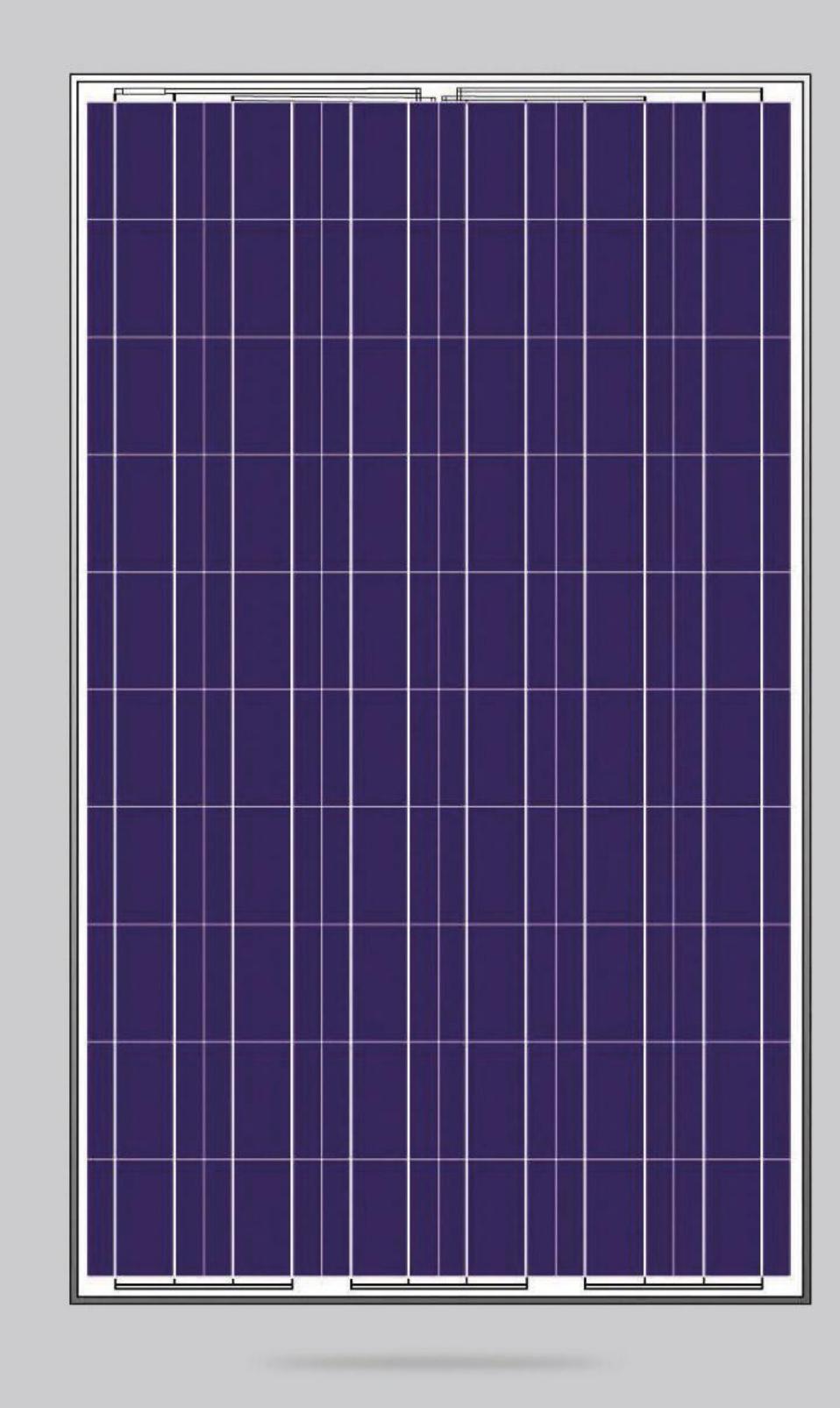
POSITIVE TOLERANCE

10 YEARS

PRODUCT WARRANTY

25 YEARS

PROGRESSIVE WARRANTY



+3%

POSITIVE TOLERANCE

10 YEARS

PRODUCT WARRANTY

25 YEARS

PROGRESSIVE WARRANTY

Polycrystalline Solar Panel (200W)

- Reliable Quality
 - Positive power tolerance:0~+5W
 - 100% EL double-inspection ensures modules are defects free
 - Modules binned by current to improve system Performance
 - Potential Induced Degradation(PID)Resistant

2 Key Features

environments



Monocrystalline modules designed for commercial and solar farm frid-tied applications



High power output and highest conversion efficiency



Anti-reflective and anti-soiling surface reduces power loss from dirt and dust

Outstanding performance in low-light irradiance



Excellent mechanical load resistance: Certified to withstand high wind loads (2400Pa) and snow loads (5400Pa)



High salt and ammonia resistance certified by TÜV NORD

Mechanical Parameters

Dimensions(LxWxH)	1320*992*35
Weight(kg)	16
Cable Length(mm)	900
Cable cross section size(mm²)	4
No.of cells and connections	72(12x6)
Frame	Anodized aluminum alloy
Packing configuration	25/21pcs/carton

Working Condition

Maximum System voltage	DC1000(TUV)
Operating Temp	-45°C+80°C
Junction Box	IP65/IP67 Rated
Static Loading	≤5400Pa
Maximum Series Fuse(A)	15A
NOCT	47±2°C
Application Class	Class A

Electrical Parameters

Rated Maximum Power at STC(W)	200W	Working Power Voltage(Vmp/P)	36.3V
Working Power Current(Imp/A)	5.51A	Open Circuit Voltage(Voc/v)	45V
Short Circuit current(Isc/a)	5.92A	Power Tolerance	0 to +3%
Current Temperature Coefficient(Isc)	0.04%/°C	Voltage Temperature Coefficient(Voc)	-0.30%/°C
Power Temperature Coefficient(Pmp)		-0.39%/°C	

Polycrystalline Solar Panel (265W)

Reliable Quality

- Positive power tolerance:0~+5W
- 100% EL double-inspection ensures modules are defects free
- Modules binned by current to improve system Performance
- Potential Induced Degradation(PID)Resistant

2 Key Features



Polycrystalline modules designed for commercial and solar farm frid-tied applications



High power output and highest conversion efficiency



Anti-reflective and anti-soiling surface reduces power loss from dirt and dust



Excellent mechanical load resistance:Certified to withstance

Outstanding performance in low-light irradiance environments



Excellent mechanical load resistance: Certified to withstand high wind loads (2400Pa) and snow loads (5400Pa)



High salt and ammonia resistance certified by TÜV NORD

Mechanical	Parameters	

Dimensions(LxWxH)	1640*992*35
Weight(kg)	18
Cable Length(mm)	900
Cable cross section size(mm²)	4
No.of cells and connections	60(10x6)
Frame	Anodized aluminum alloy
Packing configuration	25/21pcs/carton

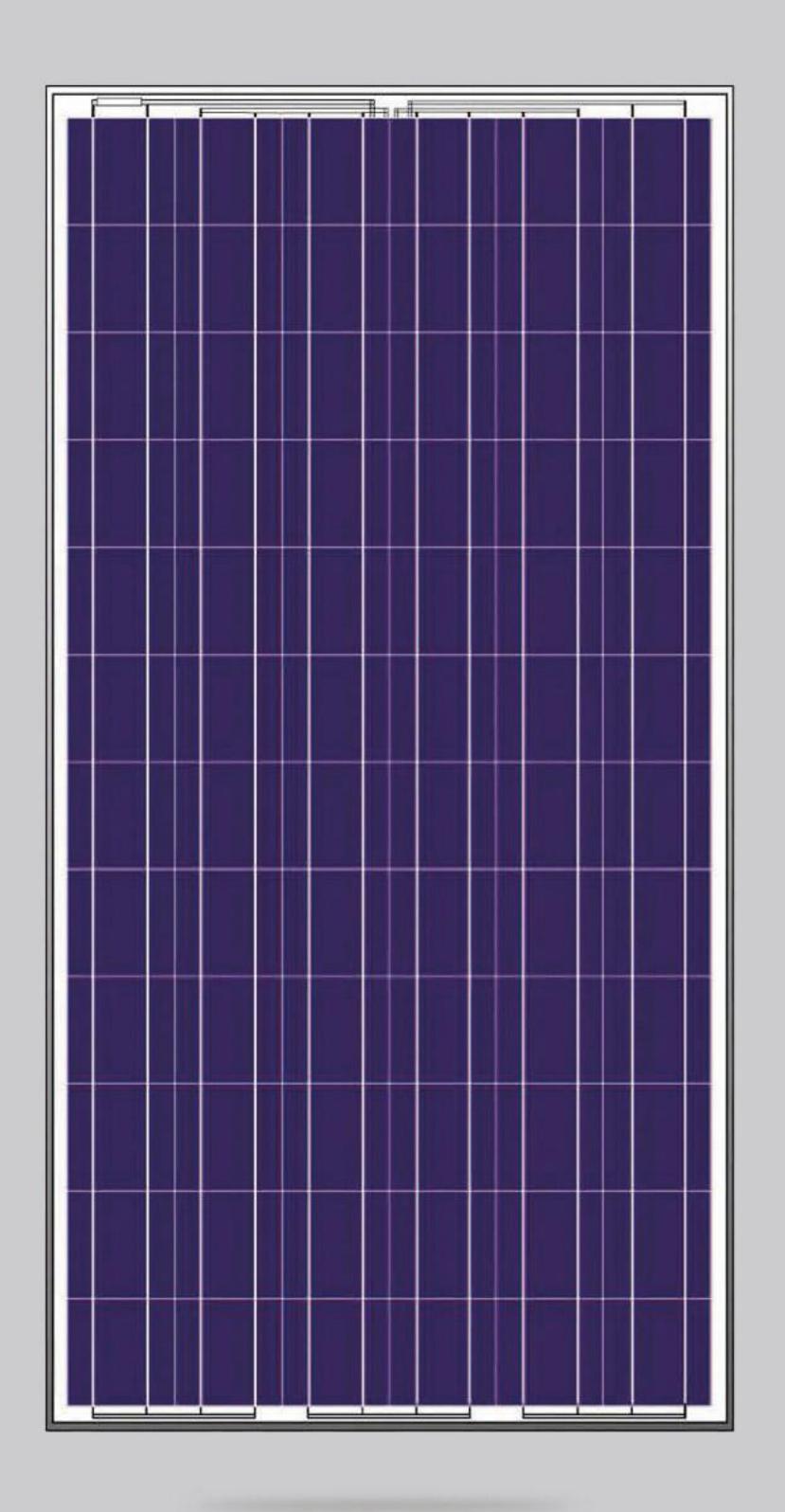
Working Condition

DC1000(TUV)
-45°C+80°C
IP65/IP67 Rated
≤5400Pa
15A
47±2°C
Class A

Rated Maximum Power at STC(W)	265W	Working Power Voltage(Vmp/P)	31.2V
Working Power Current(Imp/A)	8.49A	Open Circuit Voltage(Voc/v)	38.8V
Short Circuit current(Isc/a)	9.16A	Power Tolerance	0 to +3%
Current Temperature Coefficient(Isc)	0.04%/°C	Voltage Temperature Coefficient(Voc)	-0.30%/°C
Power Temperature Coefficient(Pmp)		-0.39%/°C	







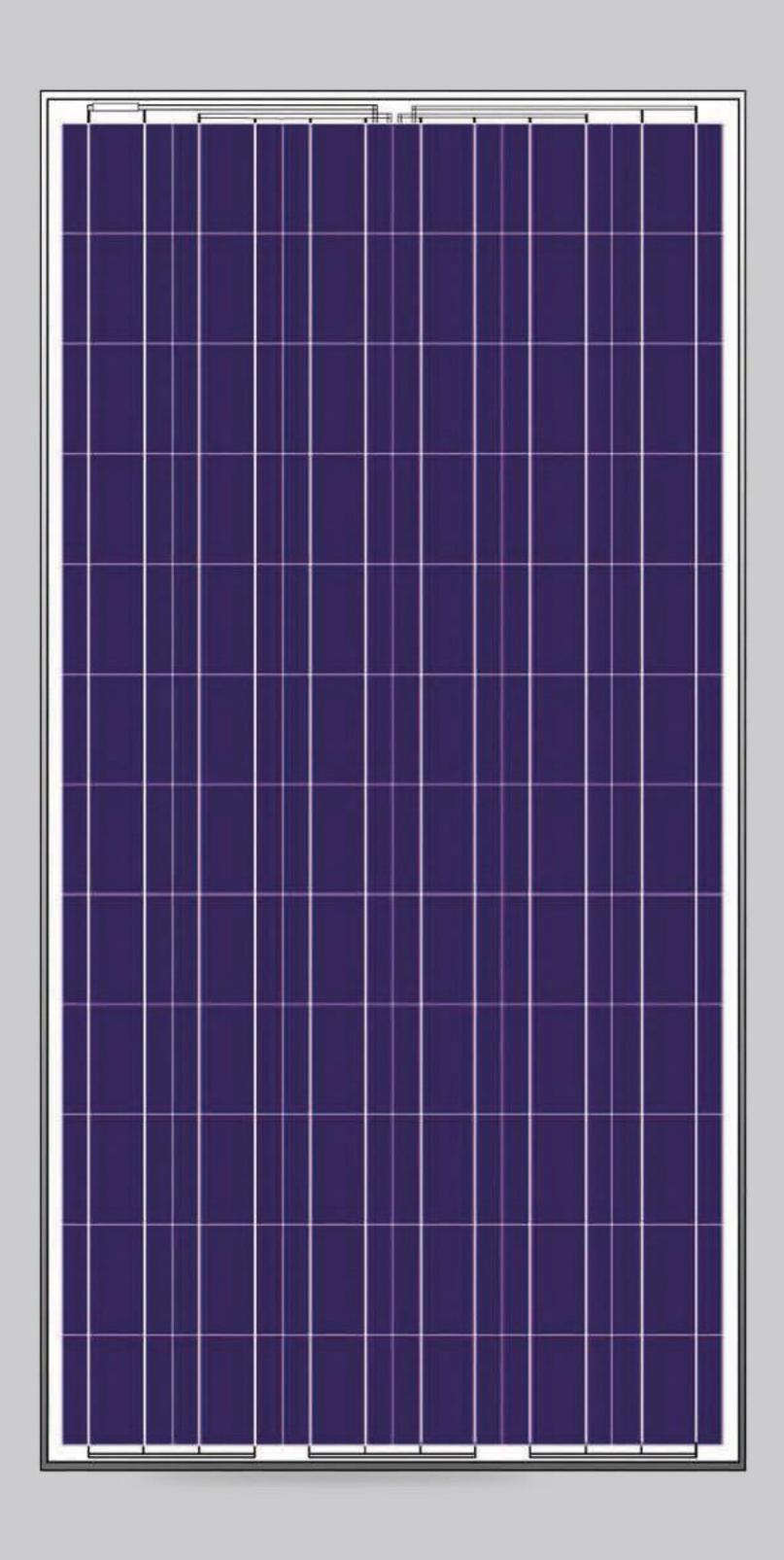
POSITIVE TOLERANCE

YEARS

PRODUCT WARRANTY

YEARS

PROGRESSIVE WARRANTY



POSITIVE TOLERANCE

YEARS

PRODUCT WARRANTY

YEARS

PROGRESSIVE WARRANTY

Polycrystalline Solar Panel (300W)

- Reliable Quality
 - Positive power tolerance:0~+5W
 - 100% EL double-inspection ensures modules are defects free
 - Modules binned by current to improve system Performance
 - Potential Induced Degradation(PID)Resistant

2 Key Features



Monocrystalline modules designed for commercial and solar farm frid-tied applications



High power output and highest conversion efficiency



Anti-reflective and anti-soiling surface reduces power loss from dirt and dust

Outstanding performance in low-light irradiance



environments Excellent mechanical load resistance: Certified to withstand



high wind loads(2400Pa) and snow loads(5400Pa)



High salt and ammonia resistance certified by TÜV NORD

Mechanical Parameters

Dimensions(LxWxH)	1956*992*40
Weight(kg)	22
Cable Length(mm)	900
Cable cross section size(mm²)	4
No.of cells and connections	72(12x6)
Frame	Anodized aluminum alloy
Packing configuration	25/21ncs/carton

Working Condition

Maximum System voltage	DC1000(TUV)
Operating Temp	-45°C+80°C
Junction Box	IP65/IP67 Rated
Static Loading	≤5400Pa
Maximum Series Fuse(A)	15A
NOCT	47±2°C
Application Class	Class A

Electrical Parameters

Rated Maximum Power at STC(W)	300W	Working Power Voltage(Vmp/P)	36.3V
Working Power Current(Imp/A)	8.27A	Open Circuit Voltage(Voc/v)	45V
Short Circuit current(Isc/a)	8.93A	Power Tolerance	0 to +3%
Current Temperature Coefficient(Isc)	0.04%/°C	Voltage Temperature Coefficient(Voc)	-0.30%/°C
Power Temperature Coefficient(Pmp)		-0.39%/°C	

Polycrystalline Solar Panel (330W)

1 Reliable Quality

- Positive power tolerance:0~+5W
- 100% EL double-inspection ensures modules are defects free
- Modules binned by current to improve system Performance
- Potential Induced Degradation(PID)Resistant

2 Key Features



Polycrystalline modules designed for commercial and solar farm frid-tied applications



High power output and highest conversion efficiency



Anti-reflective and anti-soiling surface reduces power loss from dirt and dust



Excellent mechanical load resistance: Certified to withstand

Outstanding performance in low-light irradiance environments



high wind loads(2400Pa) and snow loads(5400Pa)



High salt and ammonia resistance certified by TÜV NORD

Mechanical	Parameters	

Dimensions(LxWxH)	1956*992*40
Weight(kg)	22
Cable Length(mm)	900
Cable cross section size(mm²)	4
No.of cells and connections	72(12x6)
Frame	Anodized aluminum alloy
Packing configuration	25/21pcs/carton

Working Condition

Maximum System voltage	DC1000(TUV)
Operating Temp	-45°C+80°C
Junction Box	IP65/IP67 Rated
Static Loading	≤5400Pa
Maximum Series Fuse(A)	15A
NOCT	47±2°C
Application Class	Class A

Rated Maximum Power at STC(W) 330W Working Power Voltage(Vmp/P) 37.1V Working Power Current(Imp/A) 8.89A Open Circuit Voltage(Voc/v) 46V Short Circuit current(Isc/a) 9.43A Power Tolerance 0 to +3% Current Temperature Coefficient(Isc) 0.04%/°C Voltage Temperature Coefficient(Voc) -0.30%/°C	Power Temperature Coefficient(Pmp)		-0.39%/°C	
Working Power Current(Imp/A) 8.89A Open Circuit Voltage(Voc/v) 46V	Current Temperature Coefficient(Isc)	0.04%/°C	Voltage Temperature Coefficient(Voc)	-0.30%/°C
	Short Circuit current(Isc/a)	9.43A	Power Tolerance	0 to +3%
Rated Maximum Power at STC(W) 330W Working Power Voltage(Vmp/P) 37.1V	Working Power Current(Imp/A)	8.89A	Open Circuit Voltage(Voc/v)	46V
	Rated Maximum Power at STC(W)	330W	Working Power Voltage(Vmp/P)	37.1V



SOLAR POWER SYSTEM APPLICATIONS

10 YEARS OF EXPERIEN CE IN SOLAR SOLUTION



Solar Controller/Solar Inverter/Solar Battery/Racking

Specialized in R&D, manufacturing and integrating of renewable energy resources, we provide customers with a complete set of solar power system and components. The inverters and controllers are designed in our own patent, and can be customized as per each client's specific requirements.

We promise: the materials and original components of our solar systems are in compliance with international safety standards; Assured with reliable and stable working, easy for maintenance.















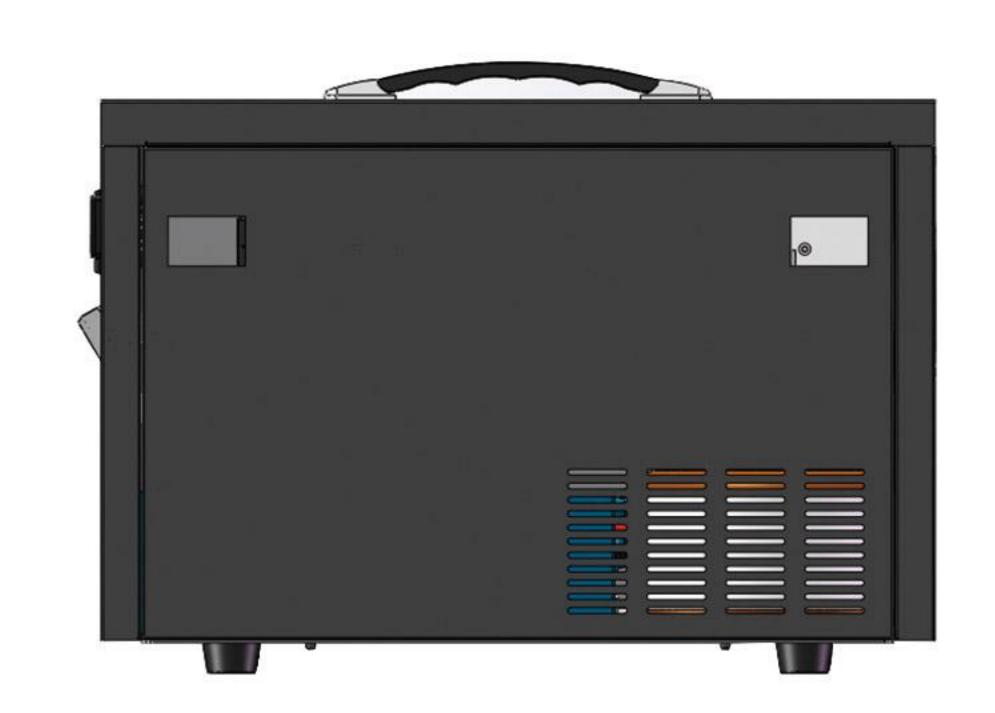


AN-MPSG

Main Features

- Fashion Aluminum alloy shell, with LED indicator light display
- With battery temperature protection, prolong the battery life.
- Within inverter, support all type Household appliances,
- Support charging and discharging
- With MPPT solar power function, make the best use of solar panel
- Low power consumption, long standby
- Pure sine wave





Item: AN-MPSG		1000VA/500W		1500VA/1000W		
	Battery Voltage	12V		24	4V	
	Lithium Battery	12V 25AH	12V 25AH 12V 50AH		24V 50AH	
Inverter	Output voltage		110/22	20VAC		
	Frequency		50Hz/	/60Hz		
	Waveform		Pure Sir	ne Wave		
	Max PV Voltage	≤25	VDC	≤50	VDC	
Solar Input	Charge Voltage	10-2	5VDC	20-50VDC		
	MPPT rated charge current		30)A		
	Max Power	360)Wp	720Wp		
DC	5VDC USB output port	2 ones/MAX 2A				
output	12VDC output port	2 DC ports + backboard 12V terminal block(MAX 8A)				
AC output	220VAC output port		2 AC outp	ut socket		
	temperature of exhaust fan	>40℃				
Ambient temperature for operation		0-45°C				
Ambient temperature for storage		-25°C - +55°C				
The state of the s	ation/storage onditions	0-90%(no condensation)				





AN-DCL

Main Features

- Short circuit protection
- Battery power indicator
- Overloading protection
- Overvoltage protection
- Overheat protection
- Built in inverter modified sine wave
- 4* DC12V output and 2* 5V USB output

Mini solar home system includes Solar panel, solar battery, solar controller, inverter, LED lamps and USB charger cable. It is one system which is special designed to meet customers' demand of electricity when they go to camping or there's no lights. It can be applied to any areas that electricity is in short supply. Use very widely. It can charge for Cell phones, lights, mp3 and other DC charging products.





Item: AN-DCL	6W	10W	10W	20W	20W	30W			
Rated Output Voltage		DC 12V							
Rated Output Current		DC 5A							
Solar Panel	18V 6W	18V 10W	18V 10W	18V 20W	18V 20W	18V 30W			
Charging Time	9 hours	5.5 hours	5.5 hours	5 hours	5 hours	6.8 hours			
Lead Acid Battery	12V 7Ah	12V 7Ah	12V 7Ah	12V 12Ah	12 12Ah	12V 24Ah			
FM radio & MP3 player	No	No	Yes	No	Yes	No			
Overload Protection	Yes	Yes	Yes	Yes	Yes	Yes			
Under-voltage Protection	Yes	Yes	Yes	Yes	Yes	Yes			
Overcharge Protection	Yes	Yes	Yes	Yes	Yes	Yes			
Short-circuit Protection	Yes	Yes	Yes	Yes	Yes	Yes			
Accessories (Optional)	 DC12V 2/3/5W LED light 5m or 10m light cables 5V 500mA USB charge cable for charging mobile phones AC-DC adapter (Universal \ British \ European \ American \ Australian \ South Africa types) 4" 2.5W USB DC mini fan 								







AN-FY

Main Features

- Double CPU intelligent control technology, excellent performance;
- The grid mode/energy-saving mode/battery mode could be set, application flexible;
- Charge current/battery type could be set, convenient and practical;
- Intelligent fan control, safe and reliable;
- Pure sine wave AC output, and be adapt to all kinds of loads,
- LCD display equipment parameter in real-time, operation status be clear at a glance;
- Output overload, short circuit protection, various of automatic protection and alarm warning;





Item: AN-FY		1-3KW	4-6KW	7-8KW		
	Rated Voltage	12/24/48VDC	48/96VDC	48/96VDC		
Rattory	Charge Current	30 <i>A</i>	(default) -C0-C6can b	e set		
Battery	Battery Type		U0-U7 can be set			
	Voltage Range		110V/220VAC			
Input	Frequency		45-65Hz			
	Voltage range	110VA	C/220VAC; ±5%(Inverte	er mode)		
	Frequency	5	0/60Hz±1%(Inverter mo	de)		
	Output wave		Pure sine wave			
	Switching time		<10ms(typical load)			
	Efficiency	>8	35% (80% Resistance lo	Resistance load)		
Output	Overload	110-	-120%/30S; >160%/300	'300ms;		
	Protection	Battery overvoltage/lowvoltage, overload, short circuit protection, overtemperature protection, etc.				
1077	ating ambient mperature	0-40℃				
Storage ambient temperature		-15 - +50℃				
Operating/Storage ambient		0-90%No condensation				
Machin	ne Size: L*W*H (mm)	463*305*177	522*355*187	630*385*262		
Package size: L*W*H (mm)		520*350*227	580*400*237	690*430*310		







AN-TY

Main Features

- Excellent performance due to double CPU intelligent control.
- Settable the mains supply preferred mode, energy-saving mode and battery preferred mode.
- Controlled by intelligent fan which is more safe and reliable.
- Pure sine wave AC output, which is able to adapt to various types of load.
- LCD display device parameters in real time, showing you the running state.
- All kinds of automatic protection and alarm of output overload and short circuit.
- Intelligent monitor the device status due to the RS232 communication interface design.





Item: AN-TY		10KW	12KW	15KW	20KW				
	Rated Voltage	96/192VDC		192VDC					
Battery	Charge Current		10-	-20A					
	Low Voltage Protection	84VDC/168VDC		168VDC					
Input	Voltage Range		110V/2	220VAC					
put	Frequency		45-6	65Hz					
	Voltage range	1	10VAC/220VAC;	±5%(Inverter mode	e)				
	Frequency		50/60Hz±1%(Inverter mode)					
	Output wave		Pure sine wave						
Output	Switching time	<4ms(typical load)							
	Efficiency	>85% (80% Resistance load)							
	Overload	110-120%/30S; >160%/300ms;							
	Protection	Battery overvoltage/lowvoltage, overload, short circuit protection, overtemperature protection, etc.							
	ating ambient mperature	0-40℃							
Storage ambient temperature		-15 - +50℃							
Operating/Storage ambient		0-90%No condensation							
Machine Size: L*W*H (mm)		555*368*695 655*383*795							
Gross Weight(KG)		110	130	150	170				







AN-TPI

Main Features

- Advanced operation mode, frequency tracking, phase-locking voltage stabilization, noise filtering and prevention of impact by fluctuation of the power grid realized in output of the inverter;
- Efficient IGBT(Insulated Gate Bipolar Transistor) inversion technology;
- High adaptability, a wide range of input frequency(45Hz-65Hz),
 which realizes stable operation of fuel generators;
- Great loading capacity, suitability for industrial applications such as machine tools and wire cutters;
- Reliable performance, a power-on test function for timely discovery elimination of potential hazards;
- Management function, big LCD, visualized display of operation statuses through flow charts, intelligent icon touch buttons, tabular data, event records, etc.





Item: AN-TPI		30KW	40KW	60KW	80KW	100KW	150KW	200KW
	Phase number	Three-phase+N+G						
AC Input	Voltage			AC2	220V/AC38	30V		
	Frequency			5	50Hz/60Hz	<u>z</u>		
DC	DC voltage		DC192V/DC220V/DC240V/DC380V					
Input	Floating battery		13.6	3V of each	battery * b	attery quar	ntity	
	Cut-off voltage		10.8	3V of each	battery * b	attery quar	ntity	
	Phase number			Thre	e-phase+	N+G		
	Voltage		A	C220V/AC3	380V±1%(steady loa	d)	
	Frequency	5	0Hz/60Hz:	±5%(main	s supply)5	50Hz±0.01	.%(battery	/)
AC	Output Waveform			Pu	re sine wa	ve		
Output	Efficiency			>95	5%(100% lo	oad)		
	THD	Linear load: <3%; non-linear load: <5%						
	Dynamic load voltage transient	<±5%(jump from 0 to 100%)						
	Instant recovery time				<100ms			
	Unbalanced voltage		<3	±3%<±1%	(balanced	load volta	ge)	
	Overload capacity	120%, 20s;>150%,100ms						
	Time of switching between the battery and the mains supply				3s-5s			
Opera	ting efficiency	≥95%(load:100%)						
Computer communication interface		RS 232/RS 485(SNMP remote monitoring network adapter)						
Operati	Operating temperature		-10~40°C					
Machir	ne Size: L*W*H (mm)	580*750*920				00*1800		
Gross	s Weight(KG)	300	360	500	580	688	850	980







AN-SCI02

Main Features

Integrates:

High efficiency pure sine wave inverter(PF=1);
Wide PV input range(120Vdc--500Vdc)80A MPPT SCC;
Intelligent 3 stage 80A AC battery charger

- Surges to 2X continuous power for 5 seconds for motor loads.
- Intelligent functionality enables utility and solar input prioritization.
- Wide utility input range(90Vac--280Vac) for unreliable grid even in the most challenging environments.
- Field serviceable with replacement boards and spare parts.
- Monitor, troubleshoot, or communication with USB/RS232.
- System configures quickly into compact, wall-mounted system.







Item: AN-SCI02		3200VA/3200W	5000VA/5000W			
	Voltage	230	VAC			
AC Input	Selectable	170-280 VAC (For Personal Computers)				
IIIPGL	voltage range	90-280 VAC (For	Home Appliances)			
	Frequency	50Hz	/60Hz			
	AC Voltage Regulation (Batt. Mode)	230VA	C ± 5%			
	Surge Power	6000VA	10000VA			
Output	Efficiency (Peak) PV to INV.	97	7%			
	Efficiency (Peak) Battery to INV.	94	4%			
	Transfer Time	10 ms (For Personal Computers	s); 20 ms (For Home Appliances)			
	Waveform	Pure si	ne wave			
	Battery voltage	24 VDC	48 VDC			
Battery & AC	Floating Charge Voltage	27 VDC	54 VDC			
Charger	Overcharge Protection	33 VDC	63 VDC			
	Maximum Charge Current	80 A	60 A			
	Maximum PV Array Power	4000 W				
	MPPT Range Operating Voltage	120 ~ 450 VDC				
Solar Charger	Maximum PV Array Open Circuit Voltage	500 VDC				
	Maximum Charging Current	80A				
	Maximum Efficiency	98	3%			
Commun	ication interface	USB/RS232				
	Humidity	5% to 95% Relative Humidity(Non-condensing)				
Operating Temperature		0°C - 55°C				
Machir	ne Size: L*W*H (mm)	100 x 300 x 440				
Gross	s Weight(KG)	9	10			





AN-SCI03

Main Features

The AN-SCI03 series is designed to power your home appliances or precious 3C electronics. It also can handle motor-type loads with high surge power such as vacuums, small freezers, or drills. With built-in solar charger, it can convert solar power to battery power and provide continuous power to connected equipment during night time.







Package

Item: AN-SCI03		1200VA/800W	2400VA/1500W			
	Voltage	230VAC				
AC Input	Selectable	170-280 VAC (For Personal Computers)				
	voltage range	90-280 VAC (For	Home Appliances)			
	Frequency	50Hz	/60Hz			
	AC Voltage Regulation (Batt. Mode)	230VA	C ± 10%			
Output	Transfer Time	20 ms	typical			
	Waveform	Simulated	Sine Wave			
Battery	Battery voltage	12 VDC	24 VDC			
& AC Charger	Floating Charge Voltage	13.7 VDC ±0.25 VDC	27.4 VDC ±0.5 VDC			
	Maximum Charge Current	10A or 20A				
	System Voltage	12VDC	24VDC			
	MPPT rated power	500W	1000W			
Solar Charger	Maximum PV Array Open Circuit Voltage	15~80 VDC	30~80 VDC			
	Maximum Charging Current	40A				
	Max. PV Array Open Circuit Voltage	102	VDC			
	Humidity	5% to 95% Relative Humidity(Non-condensing)				
Operati	ng Temperature	0°C - 55°C				
Machine	Size: L*W*H (mm)	282 X 221 X 73				
Gros	s Weight(KG)	3.2	3.5			







AN-SCI04

Main Features

- Pure sine wave output & Cold start function;
- Built-in MPPT solar charge controller;
- Selectable charging current based on applications;
- Configurable AC/Solar input priority via LCD setting;
- Compatible to mains voltage or generator power;
- Auto restart while AC is recovering;
- Overload and short circuit protection;
- Smart battery charger design to optimize battery performance;
- Selectable input voltage range for home appliances and personal computers;





Item: AN-SCI04		1000W	2000W	3000W	5000W	8000W	10000W	12000W
Input	Voltage	85-135VAC(110VAC or 120VAC)/170-275VAC(220VAC or 230VAC)						
mpat	Frequency				45-65Hz			
Output	Voltage	AC	110/ AC1	20V/AC22	0V/AC230)V±2% (ba	attery mod	de)
	Frequency				45-65Hz			
Outp	ut waveform				Sine wave			
	Efficiency				>85%			
Solar	input voltage			(MF	PPT)<200V	/DC		
Outp	ut waveform				Sine wave			
	Efficiency		>85%					
Solar ch	narging current	20/3	30A	50)A	100A		
	Battery	Optional						
Battery	y rated voltage	>85%						
Solar ch	harging current	12/24/48VDC 24/48/96 VDC		48/96VDC				
MaxAC	charging current	0-30A(optional)						
Con	version way				Interactive			
Capac	Capacity of overload		110%-120% turn to bypass after 30secs, 160% maintain 300ms a shut down				s and the	
Comm	Communication port		RS-232					
Operation	Operating Temperature		-10~+40℃					
Opera	ting Humidity	10%-90%						
Machin	ne Size: L*W*H (mm)	4	70*290*20	470*290*200 680*300 *225 78				0





AN-AGM/GEL



Main Features

- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers (UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self-discharge characteristic.
- Flexibility design for multiple install positions.

Item: AN-AGM/GEL	38AH	65AH	100AH	120AH	150AH	200AH	250AH	
Internal Resistance	Full charged at 25°C: 0.006 Ohm							
Self Discharge	3% of capacity declined per month at (25℃)							
Capacity Affected by Temp.(20HR)	60℃		25℃		0℃		-50℃	
	104%		100%		95%		86%	
Rated capacity(AH) at different hours	10hr				30hr			
	100%C10				110%C10			
Storage capacity of battery	One month(25°C)		Th	Three month(25°€		Six month(25°C)		
	95%			90%		88%		
Max charge current	25°C 10(A)							
Voltage	12V							
Designed Floating Life	8 years							



Sloped roof mounting systems

When it comes to residential solar installations, solar panels are often found on sloped rooftops. There are many mounting system options for these angled roofs, with the most common being railed, rail-less and shared rail. All of these systems require some type of penetration or anchoring into the roof, whether that's attaching to rafters or directly to the decking.



Flat roof mounting systems

Commercial and industrial solar applications are often found on large flat rooftops, like on big-box stores or manufacturing plants. These roofs may still have a slight tilt but not nearly as much as sloped residential roofs. Solar mounting systems for flat roofs are commonly ballasted with few penetrations.