

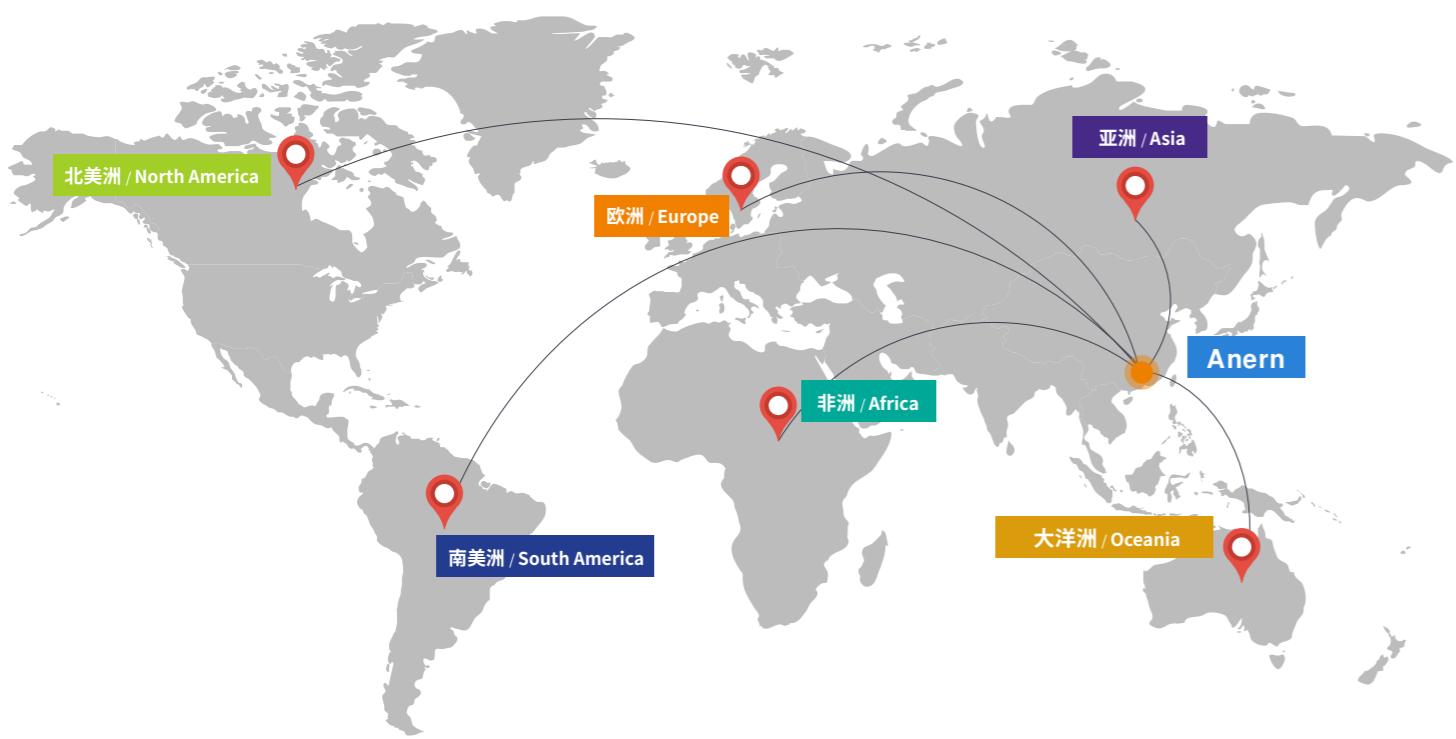


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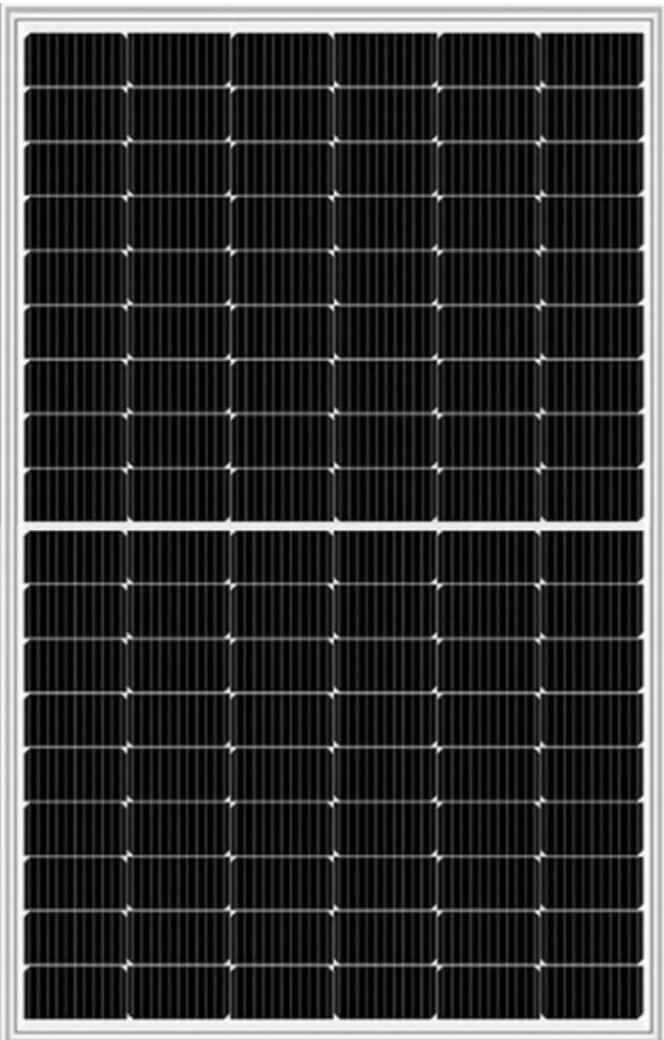
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Science Zone, Huangpu District, Guangzhou China



A LEADING MANUFACTURER IN THE SOLAR INDUSTRY

HALF CELL MONO PERC SOLAR PANEL (390W-410W)



Features of Module



Multiple Busbars (MBB)
Densely distributed grid lines, uniform load, multi-busbars design. Output power increased by more than 5W.



Lossless cut
Lossless cutting technology, no mechanical damages, smooth cutting surface without burrs. Low cell cracking risks, micro-cracking is reduced by more than 50%.



Half-cut
Current density is reduced by 1/2 Internal power loss reduced to 1/4 of conventional modules. Rated output power increased by 5~10W.



New Welding Wire
Adopt round wire solder ribbon, low shading area. Multiple reflections of incident light, power increased by 1-2W.



Shading, not compromising energy
Up-down symmetrical parallel module design Effectively reduce current mismatch due to shading.



High-Density Encapsulation Technology
Adopts advanced high-density encapsulation technology to ensure the perfect balance of efficiency and reliability. Module efficiency increased by more than 0.15%.

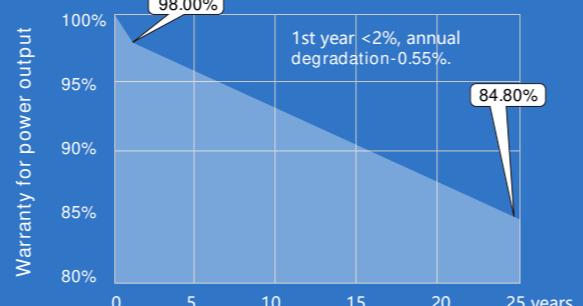
Linear Power Output Warranty

15

15-year warranty for materials.

25

25-year warranty for linear power output.



Quality Management System and Product Certification

IEC61215/61730, IEC62804(PID), IEC61701(Salt), IEC62716 (Ammonia), IEC60068-2-68(Sand)
ISO 9001:2015/quality management system
ISO 14001:2015/environmental management system
ISO 45001:2018/occupational health safety management system
ISO 50001:2011/energy management system
IEC TS 62941—2016/PV industry quality management system



ELECTRICAL CHARACTERISTICS (STC)

Module type: ANM 10-54PH	390	395	400	405	410
Maximum power ·Pm (W)	390	395	400	405	410
Open circuit voltage ·Voc (V)	36.7	36.8	37.0	37.1	37.3
Short circuit current ·Isc (A)	13.40	13.50	13.60	13.70	13.79
Voltage at maximum power point ·Vm (V)	30.7	30.9	31.0	31.2	31.3
Current at maximum power point ·Im (A)	12.71	12.81	12.91	13.01	13.10
Module efficiency-n (%)	20.0	20.2	20.5	20.7	21.0

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum power ·Pm (W)	292	296	300	304	308
Open circuit voltage ·Voc (V)	33.7	33.8	34.0	34.1	34.3
Short circuit current ·Isc (A)	10.93	11.01	11.10	11.18	11.27
Voltage at maximum power point ·Vm (V)	27.9	28.0	28.2	28.3	28.5
Current at maximum power point ·Im (A)	10.48	10.56	10.65	10.73	10.82

* STC: Irradiation 1000W/m²; AM1.5; environmental temperature 25°C tested according to EN 60904-3;

* NMOT: irradiation 800W/m²; wind speed 1m/s; environmental temperature 20°C

* Pm tolerance: 0~+5W ; power test uncertainty: ±3%; Voc[V], Isc[A], Vm[V] and Im[A] test tolerance: +3%

M ECHANICAL PARAMETERS

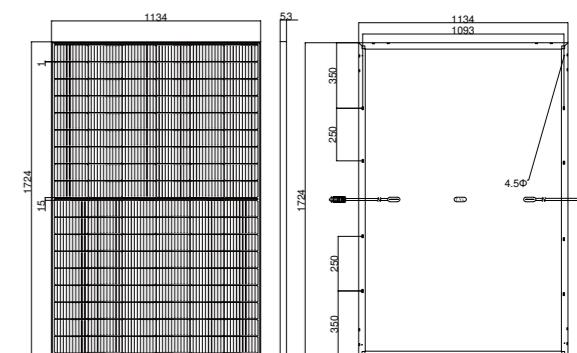
Size	1724x1134x35mm (LxWxH)
Weight	22.0kg
Front glass	3.2mm toughened glass
Cell	Monocrystalline PERC 182x182mm
Backplate	High weather resistance
Frame	Anodic alumina profile
Junction box	IP68, TUV, 3diodes
Cable	4mm ² , +400, -200/ ± 1400mm Wire length can be customized
Connector	MC4 compatible/original EVO2
Packaging mode	31pcs/pack; 806pcs/40HQ

TEMPERATURE PARAMETERS

NMOT	42.30 °C (±2°C)
Open circuit voltage temperature coefficient	-0.27%/°C
Short circuit current temperature coefficient	+0.04%/°C
Maximum power temperature coefficient	-0.34%/°C

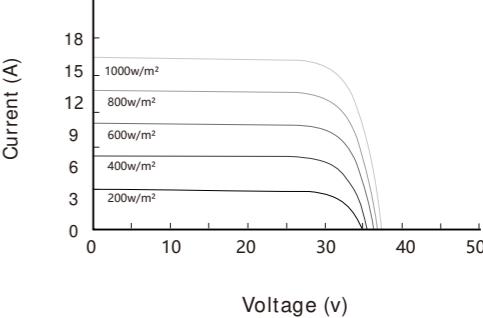
MAXIMUM RATED PARAMETERS

Maximum system voltage (V)	DC1500/1000 (IEC)
Maximum fuse rated current (A)	20
Maximum front static load (Pa)	5400
Working temperature (°C)	-40~+85
Hail resistance	Maximum diameter 25mm, impact speed 23m/s

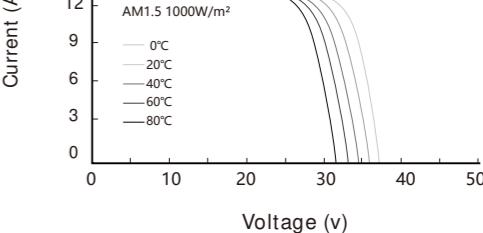


I-V Curve

Cell temperature 25°C

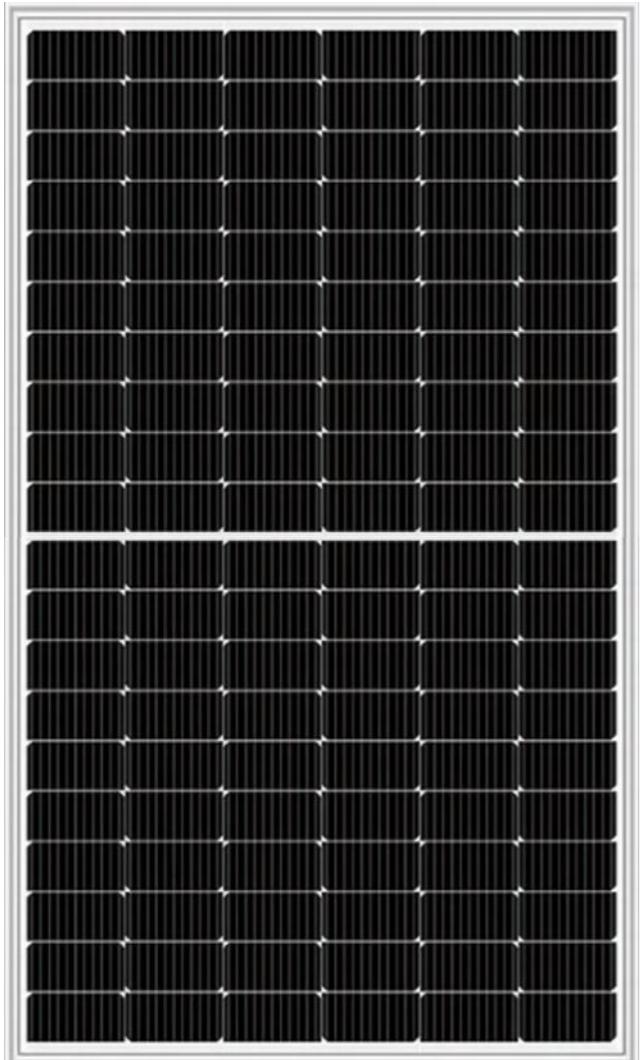


Current (A)



Current (A)

HALF CELL MONO PERC SOLAR PANEL (430W-450W)



Features of Module



Multiple Busbars (MBB)
Densely distributed grid lines, uniform load, multi-busbars design. Output power increased by more than 5W.



Lossless cut
Lossless cutting technology, no mechanical damage smooth cutting surface without burrs. Low cell cracking risks, micro-cracking is reduced by more than 50%.



Half-cut
Current density is reduced by 1/2 Internal power loss reduced to 1/4 of conventional modules. Rated output power increased by 5~10W.



New Welding Wire
Adopt round wire solder ribbon, low shading area. Multiple reflections of incident light, power increased by 1-2W.



Shading, not compromising energy
Up-down symmetrical parallel module design Effectively reduce current mismatch due to shading.



High-Density Encapsulation Technology
Adopts advanced high-density encapsulation technology to ensure the perfect balance of efficiency and reliability. Module efficiency increased by more than 0.15%.

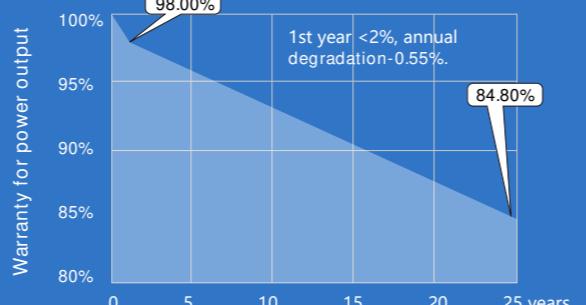
Linear Power Output Warranty

15

15-year warranty for materials.

25

25-year warranty for linear power output.



Quality Management System and Product Certification

IEC61215/61730, IEC62804(PID), IEC61701(Salt),
IEC62716 (Ammonia), IEC60068-2-68(Sand)
ISO 9001:2015/quality management system
ISO 14001:2015/ environmental management system
ISO 45001:2018/occupation health safety management system
ISO 50001:2011/ energy management system
IEC TS 62941—2016/ PV industry quality management system



Product Data Sheet

ELECTRICAL CHARACTERISTICS (STC)

Module type: ANM 10-60PH	430	435	440	445	450
Maximum power -Pm (W)	430	435	440	445	450
Open circuit voltage - Voc (V)	40.7	40.8	41.0	41.1	41.3
Short circuit current Isc (A)	13.59	13.67	13.74	13.82	13.89
Voltage at maximum power point-Vm (V)	33.9	34.1	34.3	34.5	34.7
Current at maximum power point-Im (A)	12.69	12.77	12.84	12.91	12.98
Module efficiency-n (%)	19.9	20.1	20.3	20.6	20.8

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum power -Pm (W)	327	330	333	336	340
Open circuit voltage - Voc (V)	38.2	38.3	38.4	38.5	38.7
Short circuit current Isc (A)	10.91	10.95	10.99	11.03	11.08
Voltage at maximum power point-Vm (V)	31.9	32.1	32.2	32.4	32.5
Current at maximum power point-Im (A)	10.26	10.30	10.35	10.40	10.46

* STC: Irradiation 1000W/m²; AM1.5; environmental temperature 25°C tested according to EN 60904-3;

* NMOT: irradiation 800W/m²; wind speed 1m/s; environmental temperature 20°C

* Pm tolerance: 0~+5W ; power test uncertainty: ±3%; Voc[V], Isc[A], Vm[V] and Im[A] test tolerance: +3%

M ECHANICAL PARAMETERS

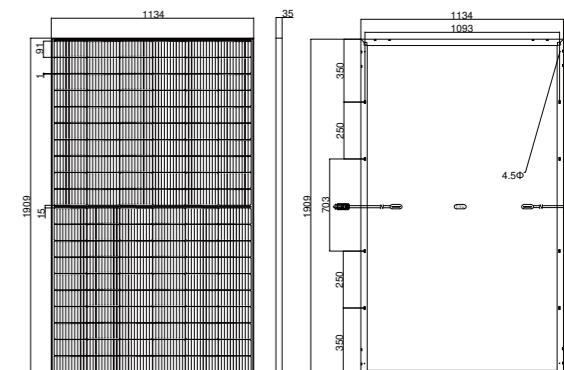
Size	1909x1134x35mm (LxWxH)
Weight	23.1kg
Front glass	3.2mm toughened glass
Cell	Monocrystalline PERC 182x182mm
Backplate	High weather resistance
Frame	Anodic alumina profile
Junction box	IP68, TUV, 3diodes
Cable	4mm ² , +400, -200/ ± 1400mm Wire length can be customized
Connector	MC4 compatible/original EVO2
Packaging mode	31pcs/pack;744pcs/40HQ

TEMPERATURE PARAMETERS

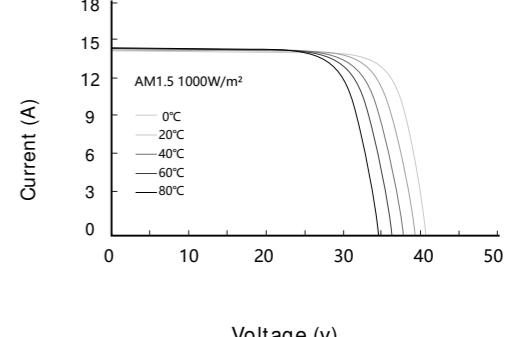
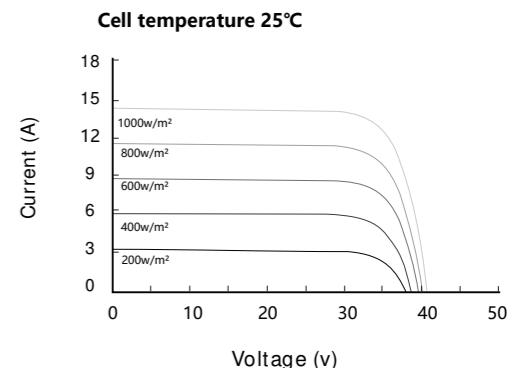
NMOT	42.30 °C (±2°C)
Open circuit voltage temperature coefficient	-0.27%/°C
Short circuit current temperature coefficient	+0.04%/°C
Maximum power temperature coefficient	-0.34%/°C

MAXIMUM RATED PARAMETERS

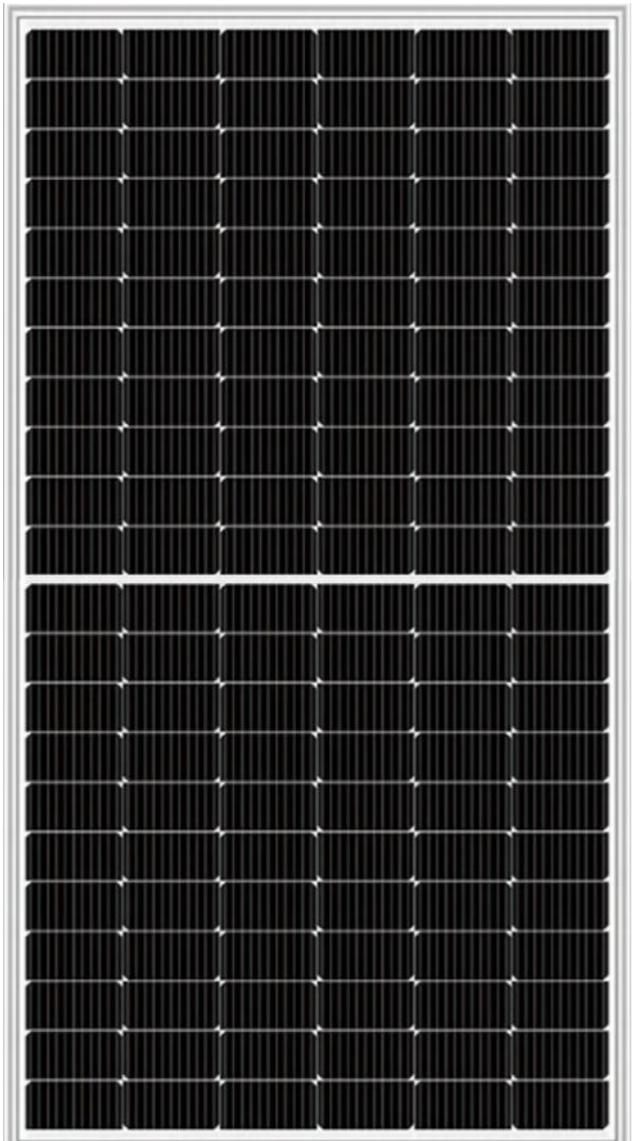
Maximum system voltage (V)	DC1500/1000 (IEC)
Maximum fuse rated current (A)	20
Maximum front static load (Pa)	5400
Working temperature (°C)	-40~+85
Hail resistance	Maximum diameter 25mm, impact speed 23m/s



I-V Curve



HALF CELL MONO PERC SOLAR PANEL (490W-510W)



Features of Module



Multiple Busbars (MBB)
Densely distributed grid lines, uniform load, multi-busbars design. Output power increased by more than 5W.



Lossless cut
Lossless cutting technology, no mechanical damage, smooth cutting surface without burrs. Low cell cracking risks, micro-cracking is reduced by more than 50%.



Half-cut
Current density is reduced by 1/2, internal power loss reduced to 1/4 of conventional modules. Rated output power increased by 5~10W.



New Welding Wire
Adopt round wire solder ribbon, low shading area. Multiple reflections of incident light, power increased by 1~2W.



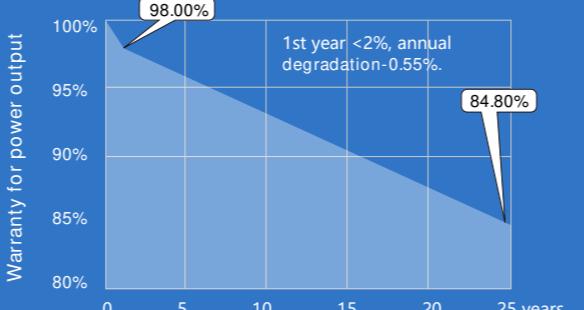
Shading, not compromising energy
Up-down symmetrical parallel module design. Effectively reduce current mismatch due to shading.



High-Density Encapsulation Technology
Adopts advanced high-density encapsulation technology to ensure the perfect balance of efficiency and reliability. Module efficiency increased by more than 0.15%.

Linear Power Output Warranty

15 15-year warranty for materials. **25** 25-year warranty for linear power output.



Quality Management System and Product Certification

IEC61215/61730, IEC62804(PID), IEC61701(Salt), IEC62716 (Ammonia), IEC60068-2-68(Sand)
ISO 9001:2015/quality management system
ISO 14001:2015/environmental management system
ISO 45001:2018/occupational health safety management system
ISO 50001:2011/energy management system
IEC TS 62941—2016/PV industry quality management system



Product Data Sheet

ELECTRICAL CHARACTERISTICS (STC)

Module type: ANM 10-66PH	490	495	500	505	510
Maximum power P_m (W)	490	495	500	505	510
Open circuit voltage V_{oc} (V)	45.3	45.5	45.7	45.8	45.9
Short circuit current I_{sc} (A)	13.79	13.86	13.92	13.99	14.04
Voltage at maximum power point V_m (V)	38.0	38.2	38.3	38.5	38.7
Current at maximum power point I_m (A)	12.89	12.97	13.05	13.12	13.18
Module efficiency-n (%)	20.6	20.8	21.1	21.3	21.7

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum power P_m (W)	370	373	377	381	385
Open circuit voltage V_{oc} (V)	42.5	42.6	42.8	42.9	43.0
Short circuit current I_{sc} (A)	11.12	11.19	11.26	11.33	11.37
Voltage at maximum power point V_m (V)	35.7	35.9	36.0	36.1	36.3
Current at maximum power point I_m (A)	10.36	10.41	10.48	10.56	10.61

* STC: Irradiation 1000W/m²; AM1.5; environmental temperature 25°C tested according to EN 60904-3;

* NMOT: Irradiation 800W/m²; wind speed 1m/s; environmental temperature 20°C

* P_m tolerance: 0~+5W ; power test uncertainty: ±3%; V_{oc} [V], I_{sc} [A], V_m [V] and I_m [A] test tolerance: +3%

Mechanical Parameters

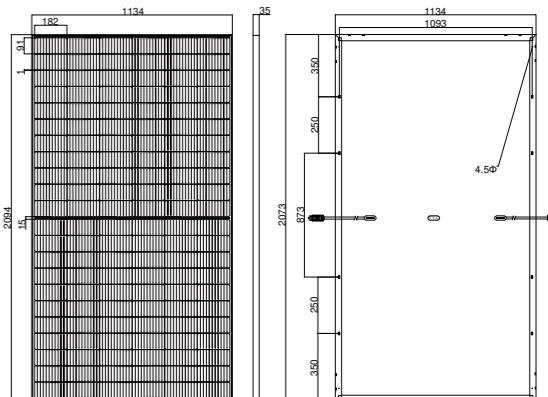
Size	2094x1134x35mm (LxWxH)
Weight	25.1kg
Front glass	3.2mm toughened glass
Cell	Monocrystalline PERC 182x182mm
Backplate	High weather resistance
Frame	Anodic alumina profile
Junction box	IP68, TUV, 3diodes
Cable	4mm ² , +400, -200/ ± 1400mm Wire length can be customized
Connector	MC4 compatible/original EVO2
Packaging mode	31pcs/pack; 682pcs/40HQ

Temperature Parameters

NMOT	42.30 °C (±2°C)
Open circuit voltage temperature coefficient	-0.27%/°C
Short circuit current temperature coefficient	+0.04%/°C
Maximum power temperature coefficient	-0.34%/°C

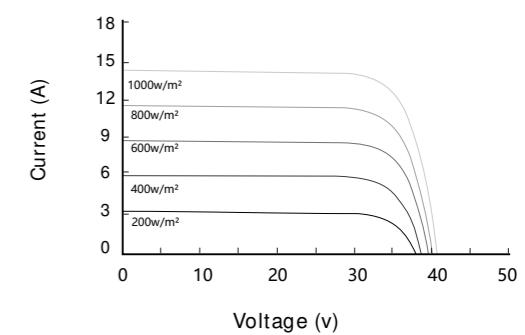
Maximum Rated Parameters

Maximum system voltage (V)	DC1500/1000 (IEC)
Maximum fuse rated current (A)	20
Maximum front static load (Pa)	5400
Working temperature (°C)	-40~+85
Hail resistance	Maximum diameter 25mm, impact speed 23m/s

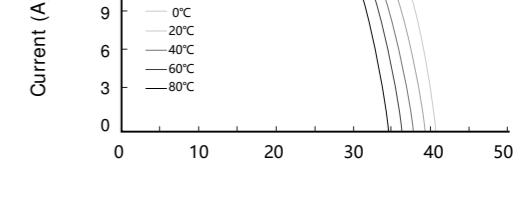


I-V Curve

Cell temperature 25°C



Current (A)



Current (A)

HALF CELL MONO PERC SOLAR PANEL (535W-555W)



Features of Module



Multiple Busbars (MBB)
Densely distributed grid lines, uniform load, multi-busbars design. Output power increased by more than 5W.



Lossless cut
Lossless cutting technology, no mechanical damage, smooth cutting surface without burrs. Low cell cracking risks, micro-cracking is reduced by more than 50%.



Half-cut
Current density is reduced by 1/2, internal power loss reduced to 1/4 of conventional modules. Rated output power increased by 5~10W.



New Welding Wire
Adopt round wire solder ribbon, low shading area. Multiple reflections of incident light, power increased by 1~2W.



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Adopts advanced high-density encapsulation technology to ensure the perfect balance of efficiency and reliability. Module efficiency increased by more than 0.15%.

Linear Power Output Warranty

15 15-year warranty for materials. **25** 25-year warranty for linear power output.



Quality Management System and Product Certification

IEC61215/61730, IEC62804(PID), IEC61701(Salt), IEC62716 (Ammonia), IEC60068-2-68(Sand)
ISO 9001:2015/quality management system
ISO 14001:2015/environmental management system
ISO 45001:2018/occupational health safety management system
ISO 50001:2011/energy management system
IEC TS 62941—2016/PV industry quality management system



Product Data Sheet

ELECTRICAL CHARACTERISTICS (STC)

Module type: ANM10-72PH	535	540	545	550	555
Maximum power Pm (W)	535	540	545	550	555
Open circuit voltage · Voc (V)	49.4	49.5	49.7	49.8	50
Short circuit current Isc (A)	13.78	13.85	13.92	13.98	14.04
Voltage at maximum power point Vm (V)	41.5	41.7	41.8	42.0	42.1
Current at maximum power point Im (A)	12.90	12.97	13.04	13.12	13.19
Module efficiency-n (%)	20.9	21.1	21.3	21.5	21.7

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum power Pm (W)	400	404	407	411	415
Open circuit voltage · Voc (V)	46.4	46.5	46.7	46.8	47.0
Short circuit current Isc (A)	11.14	11.20	11.25	11.31	11.35
Voltage at maximum power point Vm (V)	38.6	38.7	38.8	39.0	39.1
Current at maximum power point Im (A)	10.38	10.43	10.49	10.56	10.61

* STC: Irradiation 1000W/m²; AM1.5; environmental temperature 25°C tested according to EN 60904-3;

* NMOT: irradiation 800W/m²; wind speed 1m/s; environmental temperature 20°C

* Pm tolerance: 0~+5W ; power test uncertainty: ±3%; Voc[V], Isc[A], Vm[V] and Im[A] test tolerance: +3%

M ECHANICAL PARAMETERS

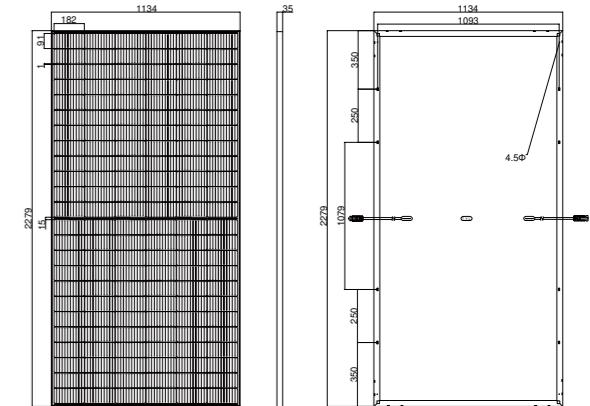
Size	2279x1134x35mm (LxWxH)
Weight	27.4kg
Front glass	3.2mm toughened glass
Cell	Monocrystalline PERC 182x182mm
Backplate	High weather resistance
Frame	Anodic alumina profile
Junction box	IP68, TUV, 3diodes
Cable	4mm ² , +400, -200/ ± 1400mm Wire length can be customized
Connector	MC4 compatible/original EVO2
Packaging mode	31pcs/pack;620pcs/40HQ

TEMPERATURE PARAMETERS

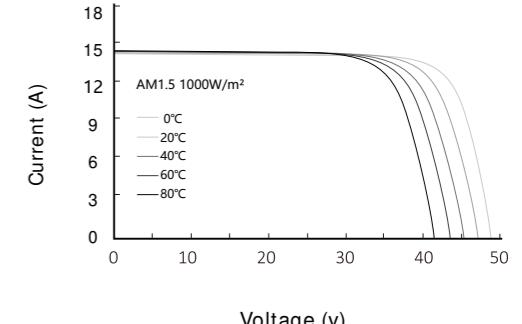
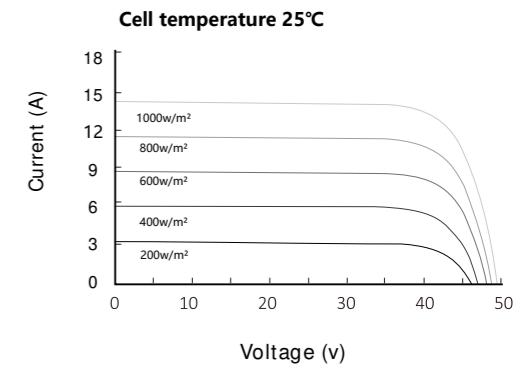
NMOT	42.30 °C (±2°C)
Open circuit voltage temperature coefficient	-0.27%/°C
Short circuit current temperature coefficient	+0.04%/°C
Maximum power temperature coefficient	-0.34%/°C

MAXIMUM RATED PARAMETERS

Maximum system voltage (V)	DC1500/1000 (IEC)
Maximum fuse rated current (A)	20
Maximum front static load (Pa)	5400
Working temperature (°C)	-40~+85
Hail resistance	Maximum diameter 25mm, impact speed 23m/s



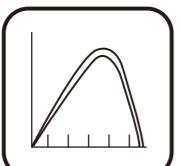
I-V Curve



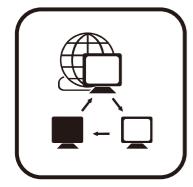
HYBRID SOLAR INVERTER (EVO SERIES)

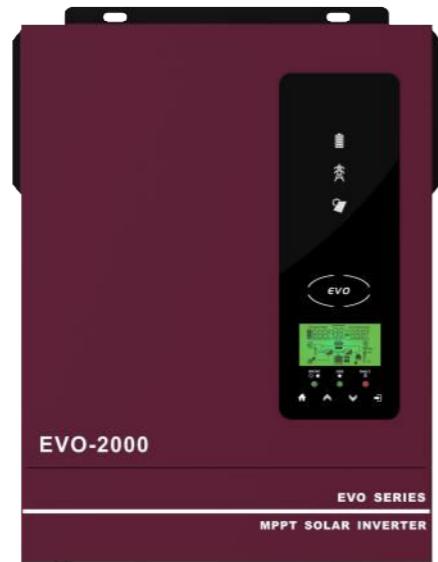


Max.Efficiency 98%



80A MPPT


 RS232/GPRS
WIFI

 IP21 Ingress
Protection

AN-SCI-EVO-2000

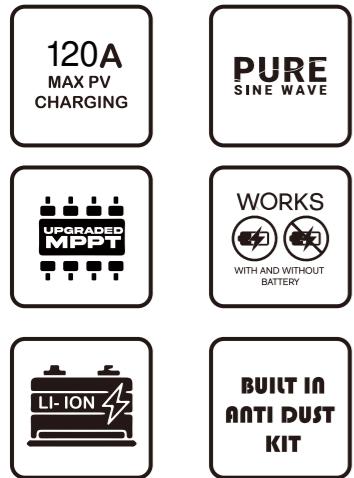
AN-SCI-EVO-3200

Model	AN-SCI-EVO-2000	AN-SCI-EVO-3200
RATED POWER	2000KVA/1600W	3200KVA/3000W
AC INPUT		
Voltage	230VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
AC OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	
Surge Power	4000VA	6400VA
Efficiency (Peak) PV to INV.	98%	
Efficiency (Peak) Battery to INV.	94%	
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
BATTERY & AC CHARGER		
Battery Voltage	12VDC	24VDC
Floating Charge Voltage	13.5VDC	27VDC
Overcharge Protection	16VDC	33VDC
Maximum AC Charge Current	60A	
SOLAR CHARGER		
Maximum PV Array Power	2000W	3000W
MPPT Range @ Operating Voltage	30-400VDC	
Maximum PV Array Open Circuit Voltage	400VDC	
Maximum Charging Current	80A	
PHYSICAL		
Dimension, D x W x H (mm)	360*270*100mm	
Net Weight (kg)	4.4	5.4
INTERFACE		
Communication interface	WIFI	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10°C - 50°C	
Storage Temperature	-15°C - 60°C	

Features of Module

- Pure Sine Wave Solar Inverter.
- Output power factor 1.0.
- Built-in 80A MPPT solar controller.
- Max 2000W(for 2000KVA) & 3000W(for 3200KVA) solar charge.
- High PV input voltage range(30-400VDC).
- Built-in anti-dust kit for harsh environment.
- Smart battery charge design to optimize battery life.
- Compatible with lithium battery.
- WIFI available for IOS and Android.

HYBRID SOLAR INVERTER (EVO SERIES)

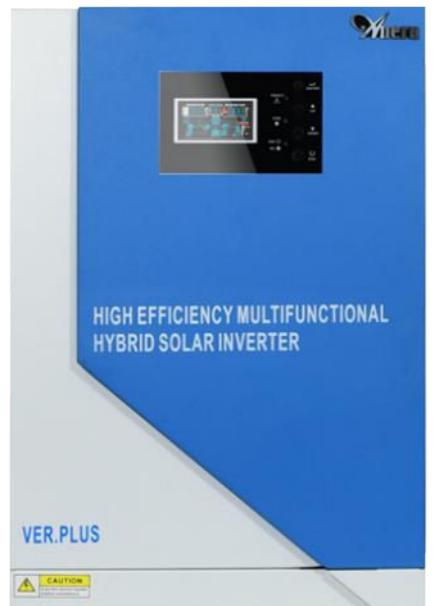


Features of Module

- Pure Sine Wave Solar Inverter.
- Self-consumption and feed-in to the grid.
- Inverter running without battery.
- One-key restoration to factory settings.
- Built-in Lithium battery automatic activation.
- Built-in 120A MPPT solar controller.
- Max 6200W(for 3.6KW) & 6500W(for 6.2KW) solar charge.
- High PV input voltage range(90-450VDC).
- Built-in anti-dust kit for harsh environment.
- Smart battery charge design to optimize battery life.
- Dual output.
- WIFI available for IOS and Android.

Model	AN-SCI-EVO-3600	AN-SCI-EVO-6200
RATED POWER	3600W	6200W
GRID-TIE OPERATION		
PV INPUT (DC)		
Naninal DC Voltage/Maximum DC Voltage	360VDC/500VDC	
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC	
Maximum DC Voltage	90-450VDC	
Number of MPPT Trackers/Maximum Input Current	1/27A	
GRID OUTPUT (AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195.5-253VAC	
Nominal Output Current	15.7A	27.0A
Power Factor	>0.99	
Feed-in Grid Frequency Range	49-51±1Hz/59-61±1Hz	
EFFICIENCY		
Maximum Conversion Efficiency(Solar to AC)	98%	
TWO LOAD OUTPUT POWER		
Full Load	3600W	6200W
Maximum Main Load	3600W	6200W
Maximum Second Load(battery mode)	1200W	2067W
Main Load Cut Off Voltage	22VDC	44VDC
Main Load Return Voltage	26VDC	52VDC
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	30A	40A
Nominal operating frequency	50/60Hz	
Surge Power	7200W	12400W
BATTERY MODE OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Waveform	Pure sine wave	
Efficiency(DC to AC)	94%	
BATTERY & CHARGER		
Nominal DC Voltage	24VDC	48VDC
Maximum Charging Current(Solar to AC)	120A	
Maximum AC Charging Current	100A	
GENERAL		
PHYSICAL		
Dimension, D x W x H (mm)	450*350*110mm	
Net Weight (kgs)	9	10
INTERFACE		
Communication interface	WIFI	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10°C - 50°C	
Storage Temperature	-15°C - 60°C	

HYBRID SOLAR INVERTER (AN-SCI02 PLUS SERIES)



Features of Module

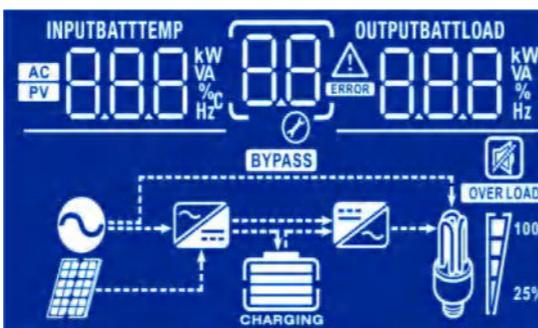
- Pure sine wave solar inverter
- Output power factor 1.0
- Wifi&GPRS available for IOS and android
- Inverter can run without battery
- Built-in 100A MPPT solar charger
- High PV input voltage range(120~500VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life



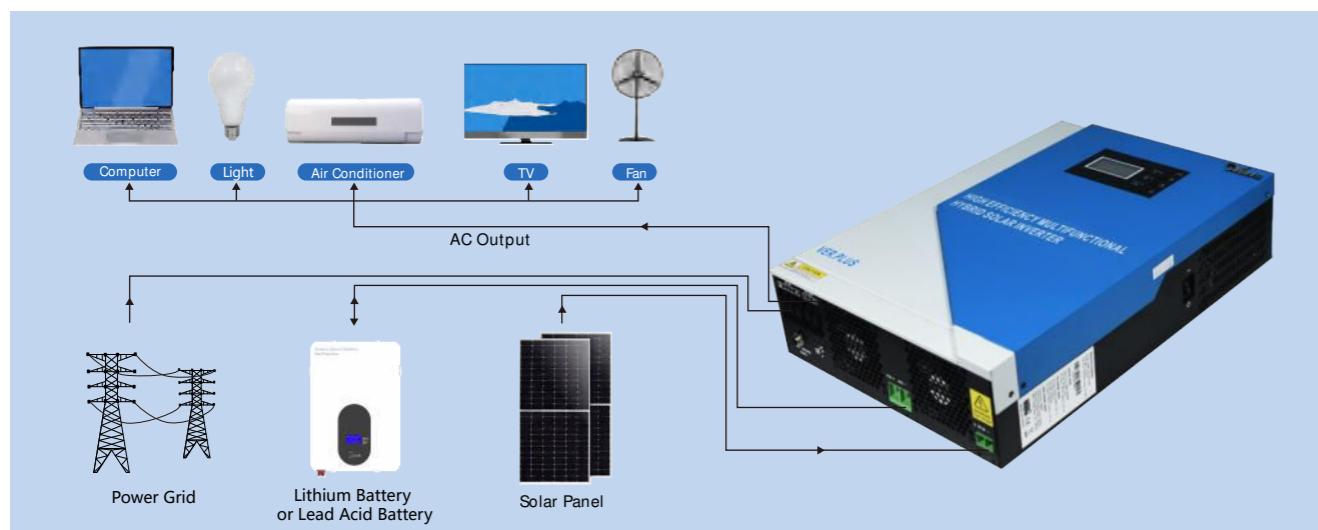
WIFI&GPRS available for Ios and Android



LCD Display

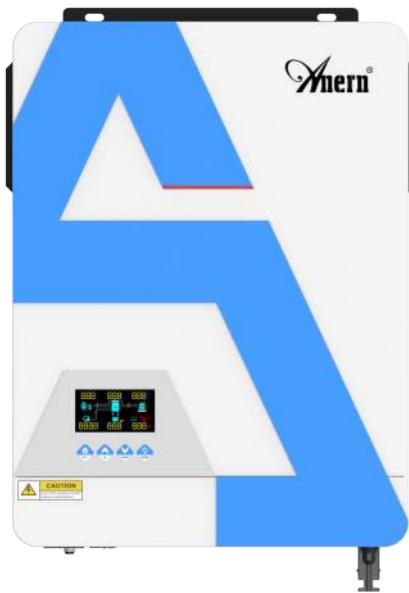


Product Topology



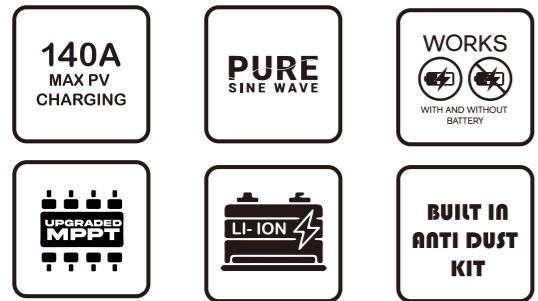
Model	AN-SCI02-PLUS-3500	AN-SCI02-PLUS-5500
Rated Power	3500VA/3500W	5500VA/5500W
INPUT		
Voltage	230VAC	
Selectable Voltage Range	170-280VAC(For Personal Computers) 90-280VAC(For Home Appliances)	
Frequency Range	50 Hz/60Hz(Auto sensing)	
OUTPUT		
AC Voltage Regulation(Batt.Mode)	230VAC±5%	
Surge Power	7000VA	11000VA
Efficiency(Peak)PV to INV	97%	
Efficiency(Peak)Battery to INV	94%	
Transfer Time	10 ms (For Personal Computers);20 ms (For Home Appliances)	
BATTERY & AC CHARGER		
Battery Voltage	24VDC	48VDC
Floating Charge Voltage	27VDC	54VDC
Overcharge Protection	33VDC	63VDC
Maximum Charge Current	80A	80A
SOLAR CHARGER		
Maximum PV Array Power	5000W	6000W
MPPT Range @ Operating Voltage	120-450VDC	
Maximum PV Array Open Circuit Voltage	500VDC	
Maximum Charging Current	100A	100A
Maximum Efficiency	98%	
PHYSICAL		
Dimension,D*W*H(mm)	100*300*440	
Cartoon Dimension,D*W*H(mm)	590*390*208	
Net Weight(kgs)	10	11
Gross Weight(kgs)	11	12
Communication interface	USB/RS232/GPRS/WIFI	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non~condensing)	
Operating Temperature	10°C~50°C	

HYBRID SOLAR INVERTER (AN-SCI02 PRO SERIES)



Features of Module

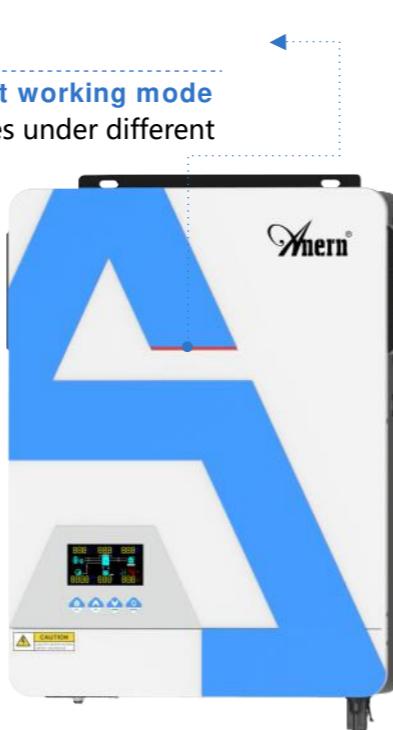
- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WIFI&GPRS available for IOS and Android
- Inverter can run without battery
- One-key restoration to factory Settings
- Built-in Lithium battery automatic activation
- Built-in 120A(for 3.6KW/6.2KW)/140A(for 4.2KW)
- MPPT:Max 6200w(for 3.6kw/4.2kw),max 6500w (for 6.2kw) solar charge
- High PV input voltage range(90-500VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life



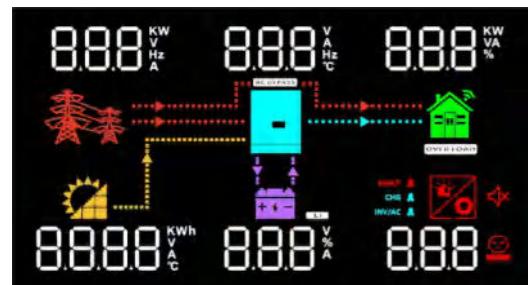
RGB LIGHT

RGB lighting for different working mode

RGB automatically switches under different working modes
Battery mode: red;
Utility mode: blue;
PV mode: purple;



LCD Display

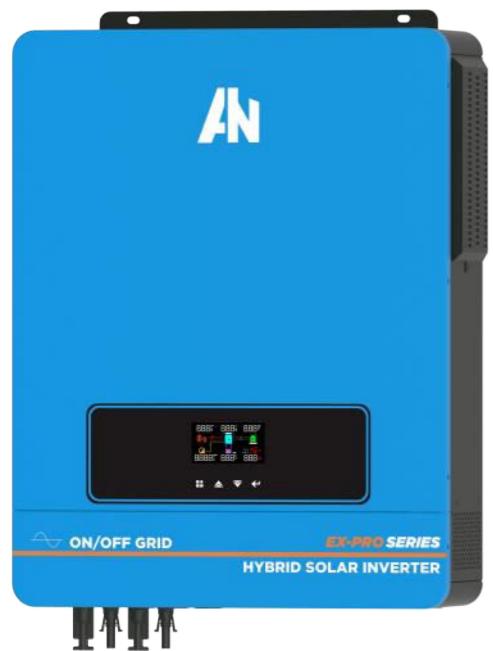


WIFI& GPRS available for Ios and Android



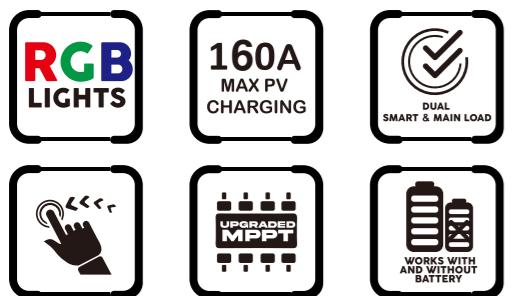
Model	AN-SCI02-Pro-3600	AN-SCI02-Pro-4200	AN-SCI02-Pro-6200
Phase		1-phase	
Maximum PV Input Power	6200W	6200W	6500W
Rated Output Power	3600W	4200W	6200W
Maximum Solar Charging Current	120A	140A	120A
GRID-TIE OPERATION			
PV Input(DC)			
Nominal DC Voltage/Maximum DC Voltage		360VDC/500VDC	
Start-up Voltage/Initial Feeding Voltage		90VDC/120VDC	
MPPT Voltage Range		90-450VDC	
Number of MPPT Trackers/Maximum Input Current		1/27A	
GRID OUTPUT(AC)			
Nominal Output Voltage		200/230/240VAC	
Output Voltage Range		195.5~253VAC	
Nominal Output Current	15.7A	18.2A	27.0A
Power Factor		>0.99	
Feed-in Grid Frequency Range		49-51±1Hz	
EFFICIENCY			
Maximum Conversion Efficiency(Sloar to AC)		98%	
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	30A	30A	40A
Nominal operating frequency		50/60Hz	
Surge power	7200W	8400W	12400W
BATTERY MODE OUTPUT(AC)			
Nominal Output Voltage	24VDC	24VDC	48VDC
Output Waveform		Pure sine wave	
Efficiency(DC to AC)		94%	
BATTERY & CHARGER			
Nominal DC Voltage	24VDC	24VDC	48VDC
Maximum Charging Current (Solar to AC)	120A	140A	120A
Maximum AC Charging Current		100A	
GENERAL			
PHYSICAL			
Dimension,D*W*H(mm)		420*310*110	
Cartoon Dimension,D*W *H(mm)		590*390*208	
Net Weight(kgs)	8.8	9.3	9.8
Gross Weight(kgs)	10	11	11
INTERFACE			
Communication Port		RS232/WIFI/GPRS	
ENVIRONMENT			
Operating Temperature		-10-50°C	

HYBRID SOLAR INVERTER (AN-SCI02 PRO SERIES)



Features of Module

- 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 charger (for 8.2kw, 2kw), 140A (for 7.2kw)
- 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



RGB LIGHT

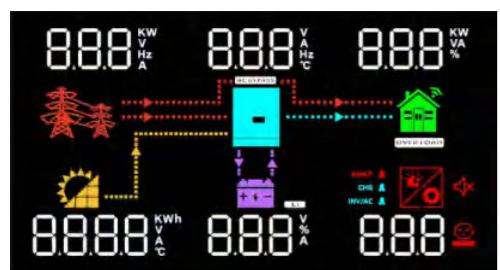
RGB lighting for different working mode

RGB automatically switches under different working modes of inverter:

Battery mode: red;
Utility mode: blue;
PV mode: purple;



LCD Display



WIFI & GPRS available for Ios and Android



Model	EX-Pro-7200	EX-Pro-8200	EX-Pro-8200
Maximum PV Input Power	8200W	8200W	10200W
Rated Output Power	7200W	8200W	10200W
Maximum Solar Charging Current	140A	160A	160A
GRID-TIE OPERATION			
PV INPUT(DC)			
Nominal DC Voltage/Maximum DC Voltage	360VDC/500VDC		
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC		
MPPT Voltage Range	90VDC-450VDC		
Number of MPPT Trackers/Maximum Input Current	1/23A		
GRID OUTPUT(AC)			
Nominal Output Voltage	220/230/240VAC		
Output Voltage Range	195-253VAC		
Nominal Output Current	31.3A	35.6A	44.3A
Power Factor	>0.99		
Feed-in Grid Frequency Range	49~51±1Hz		
EFFICIENCY			
Maximum Conversion Efficiency(DC/AC)	98%		
TWO LOAD OUTPUT POWER			
Full Load	7200W	8200W	10200W
Maximum Main Load	7200W	8200W	10200W
Maximum Second Load(battery mode)	2400W	2733W	3400W
Main Load Cut Off Voltage	44VDC	44VDC	44VDC
Main Load Return Voltage	52VDC	52VDC	52VDC
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	40A	50A
Nominal Operating Frequency	50/60Hz		
Surge Power	14400W	16400W	20400W
PV INPUT(DC)			
Maximum DC Voltage	500VDC		
MPPT Voltage Range	90VDC-450VDC		
Number of MPPT Trackers/Maximum Input Current	1/23A		
BATTERY MODE OUTPUT			
Nominal Output Voltage	220/230/240VAC		
Output Waveform	Pure sine wave		
Efficiency (DC to AC)	94%		
BATTERY & CHARGER			
Nominal DC Voltage	48VDC	48VDC	48VDC
Maximum Solar Charging Current	140A	160A	160A
Maximum AC Charging Current	120A	140A	160A
PHYSICAL			
Dimension, D x W x H (mm)	420*310*110		
Cartoon Dimension, D X W X H (mm)	588*463*205		
Net Weight (kgs)	13.1	14.2	14.5
Gross Weight (kgs)	14.1	15.7	16.0
Communication Port	RS232/WIFI/Remove LCD/GPRS		
Operating Temperature	-10~50°C		

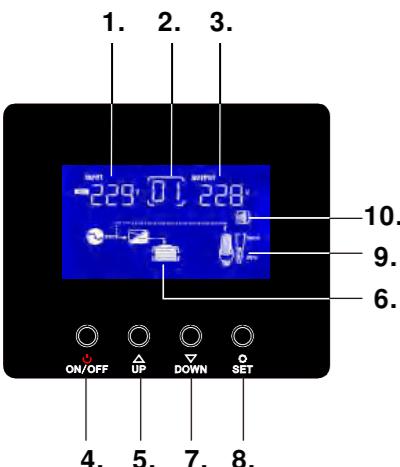
LOW FREQUENCY INVERTER (AN-W SPI SERIES)



Features of Module

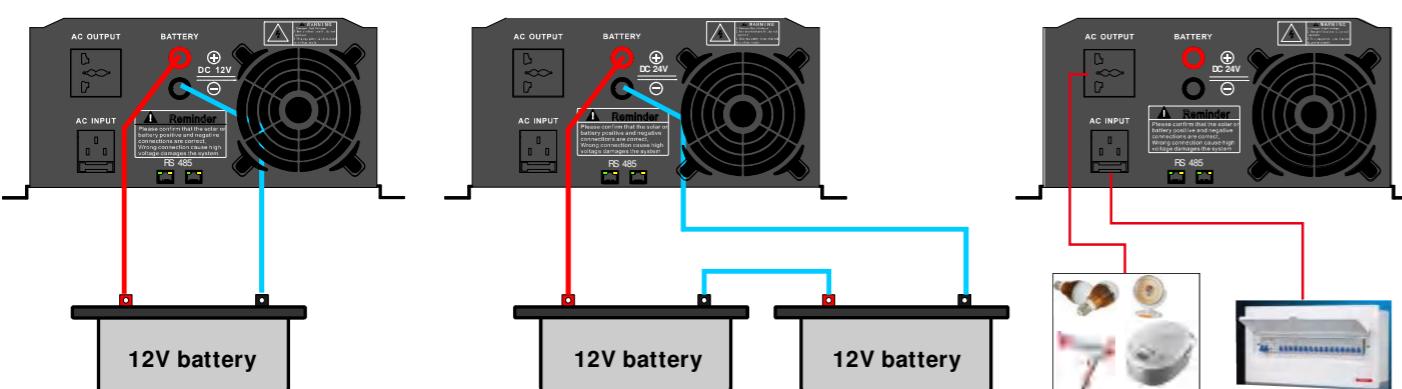
- Pure sine wave output
- With UPS automatic switching function, grid power charging function
- It has perfect protection functions such as over load high voltage, low voltage, short circuit, etc.
- DSP Intelligent Chip Control, Excellent Performance
- Strong inverting capability, one-time soft start, triple output peak power, with all inductive loads
- Smart LCD display and setting(Working modes, Charge Current, Charge Voltage, charging on/of switch, AC range input , battery voltage ,Battery low voltage shutdown etc.)
- Full personalized LCD display, inverters can display various data information
- Mains priority mode, Battery priority mode, Energy saving priority Generator mode,
- Main priority unattended mode, Battery priority unattended mode, can be set freely to meet different occasions
- WIFI/RS485 remote monitoring communication (Optional)

LCD Display Information



NO	LCD Display	Contents Descriptions
1.	INPUTAC	Input
2.	(1)	Working mode code
3.	OUTPUT	AC Output
4.	①	ON/OFF button
5.	②	UP button
6.	BATT	battery capacity
7.	③	DOWN button
8.	④	SET button
9.	LOAD 25%--100%	Load output percentage
10.	⑤	Mute

Solar System Connection



Model	AN-W SPI-500W	AN-W SPI-700W	AN-W SPI-1000W	AN-W SPI-1200W	AN-W SPI-1500W
Inverter Output					
Rated power	500W	700W	1000W	1200W	1500W
Surge rating(20MS)	1500W	2100W	3000W	3600W	4500W
Capable of starting electric Motor	150W	200W	300W	400W	500W
Wave form	Pure sine wave				
Power factor	1				
Output voltage RMS	110VAC/120VAC ;220VAC/230VAC/240VAC±10 %				
Output frequency	50Hz or 60Hz (±0.3Hz)				
Inverter efficiency (peak)	>85%				
Line mode efficiency	>95%				
Overload	120%<Load<130% ±10:Fault(Turnoff output after 60seconds) 130%<Load<150% ±10:Fault(Turnoff output after 10seconds) 150%<load±10:Fault(Turnoff output after 10seconds)				
Battery					
Battery voltage	12VDC/24VDC				
Minimum start voltage	(9.5V-12.5V adjustable)+0.5V for 12VDC mode (*2 for 24VDC)				
Low battery voltage cut off	(9.5V-12.5V adjustable), 10V(default) for 12VDC mode (*2 for 24VDC)				
Low battery voltage alarm	(9.5V-12.5V adjustable)+0.5V,10.5V(default) for 12VDC mode (*2 for 24VDC)				
High battery voltage alarm	16V for 12VDC mode (*2 for 24VDC)				
High Battery Voltage Recover	15.5V for 12VDC mode (*2 for 24VDC)				
Battery type	AGM,Lead Acid,Lithium, Ternary				
AC Input Mode					
Input wave form	Pure sine wave				
AC input voltage	110V/120VAC±20% ;220/230/240VAC±20%				
Low input voltage	110/120VAC:70-90VAC(adjustable),80VAC(default) ; 220/240VAC:140-180VAC(adjustable),140VAC(default)				
Max input voltage	110/120VAC:130-145VAC(adjustable),137VAC(default) ; 220/240VAC:260-290VAC(adjustable),275VAC(default)				
Input frequency	50Hz/60Hz (auto sensing)				
Eficiency (AC mode)	>95% (load, full battery)				
Transfer time AC to DC	8ms(Max)				
AC Charge Current (Max)					
12V	10A	20A	30A	30A	/
24V	5A	10A	20A	20A	30A
Min charge current 5A, Change by every 5A					
Dimensions					
Mounting	Wall Mount				
Dimensions (W*H*D)	470*390*210mm				
Ship Dimensions (W*H*D)	580*380*270mm(2pcs / Carton)				
Net Weight (Solar CHG)(kg)	7.5	8.5	10.5	11	12
Shipping Weight (Solar CHG)(kg)	15	17	21	22	24
OverloadWarranty	1year				

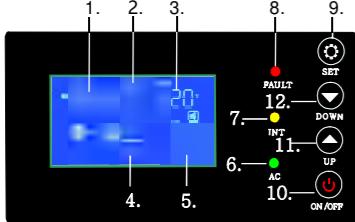
LOW FREQUENCY INVERTER (AN-SPI SERIES)

Features of Module

- Pure sine wave output
 - With UPS automatic switching function, grid power charging function
 - It has perfect protection functions such as over load high voltage, low voltage, short circuit, etc.
 - DSP Intelligent Chip Control, Excellent Performance
 - Strong inverting capability, one-time soft start, triple output peak power , with all inductive loads
 - Smart LCD display and setting(Working modes, Charge Current, Charge Voltage, charging on/of switch, AC range input , battery voltage ,Battery low voltage shutdown etc)
 - Full personalized LCD display, inverters can display various data information
 - Mains priority mode, Battery priority mode, Energy saving priority Generator mode,
 - Main priority unattended mode, Battery priority unattended mode, can be set freely to meet different occasions
 - WIFI/RS485 remote monitoring communication (Optional)

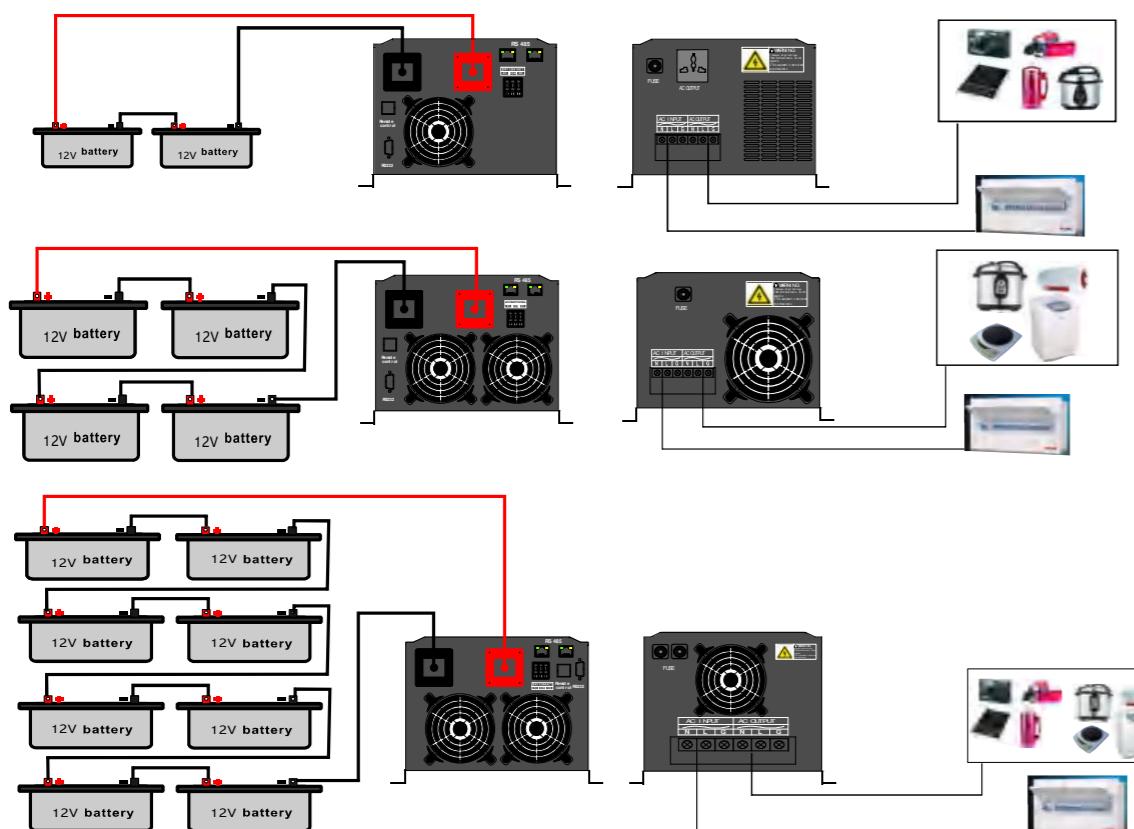


LCD Display Information



NO	LCD Display	Contents Descriptions
1.	INPUTAC	AC Input
2.	(1)	Working mode code
3.	OUTPUT	AC Output
4.	BATT	Battery capacity
5.	LOAD 25%--100%	Load output percentage
6.	AC	AC indicator
7.	INVERTER	Inverter indicator
8.	FAULT	Fault indicator
9.	⑧	SET button
10.	⑨	ON/OFF button
11.	▲	UP button
12.	▼	DOWN button

Solar System Connection



Battery

Battery voltage	24VDC/48VDC	48VDC/96VDC
Minimum start voltage	(9.5V-12.5V adjustable)+0.5V for 12VDC mode (*2 for 24VDC, *4 for 48VDC, *8 for 96VDC)	
Low battery voltage cut off	(9.5V-12.5V adjustable), 10V(default) for 12VDC mode (*2 for 24VDC, *4 for 48VDC, *8 for 96VDC)	
Low battery voltage alarm	(9.5V-12.5V adjustable)+0.5V,10.5V(default) for 12VDC mode (*2 for 24VDC,*4 for 48VDC, *8 for 96VDC)	
High battery voltage alarm	16V for 12VDC mode (*2 for 24VDC, *4 for 48VDC,*8 for 96VDC)	
High Battery Voltage Recover	15.5V for 12VDC mode (*2 for 24VDC,*4 for 48VDC, *8 for 96VDC)	
Battery type	AGM,Lead Acid,Lithium, Ternary	

AC Input Mod

Input wave form	Pure sine wave
AC input voltage	110V/120VAC±25%;220/230/240VAC±25%
Low input voltage	110/120VAC:70-90VAC(adjustable),80VAC(default) ; 220/240VAC:140-180VAC(adjustable),160VAC(default)
Max input voltage	110/120VAC:130-145VAC(adjustable),137VAC(default) ; 220/240VAC:260-290VAC(adjustable),275VAC(default)
Input frequency	50Hz/60Hz (auto sensing)
Efficiency (AC mode)	>95% (load, full battery)
Transfer time AC to DC	8ms(Max)

AC Charge Current (Max)

Dimensions

M PPT SOLAR CONTROLLER

(AN-M PJ SERIES)



Features of Module

The solar charge controller is a multi-level maximum power point tracking (MPPT) photovoltaic battery charge controller with its own technology. Compared with the PWM controller, the MPPT can improve the control accuracy and the output power of the solar panel can be increased by 5%-30%.

Specification Characteristics



Rated Charge Current	10A-60A
Rated Voltage	12V/24V
System voltage	100V



- Protections
- Parameters Adjustable
- Battery Type

- Rs485/RJ45 Port (Optional)
- Temperature Compensation
- Class V-0 Flame Retardant Enclosure

Model	AN-M PJ20	AN-M PJ40	AN-M PJ60
Input			
Maximum PV open circuit voltage	100V (at the lowest temperature) 92V (at a standard temperature of 25°C)		
Minimum PV voltage		20V/40V/60V/80V	
Rated Charge Current	20A	40A	60A
Output			
System voltage		12V/24V Auto	
Rated Discharge Current	10A	20A	30A
Own consumption		<50mA	
MPPT highest accuracy		99%	
Maximum charging efficiency		97%	
Charging control mode	Multi-stage(MPPT, Absorption, Float, Equalization, CV)		
Float charge	13.8V/27.6V		
Absorption charge	14.4V/28.8V		
Equalization charge	14.6V/29.2V		
Load disconnection(LVD)	10.8V/21.6V		
Load reconnection(LVR)	12.6V/25.2V		
Load control mode	Normal, light control, light and timing control, timing control, reverse light control		
Light control point voltage	5V/10V/15V/20V		
Battery Type	GEL, SLA/FLD and USR(default), Lithium batteries customization 3series 3.7V, 4 series 3.7V, 4series 3.2V, 5series 3.2V		
Other			
Human interface	LCD with backlight, 2 buttons		
Cooling mode	AL alloy heat sink		
Wiring	High current copper terminals 16 mm ² (3AWG)		
Temperature probe	built-in		
Communication mode	RS485, RJ45 port		
Working temperature range	-20~+55°C		
Storage temperature range	-30~+80°C		
Humidity	10%~90% No condensation		
Dimensions			
Product size	175 x 145 x 47mm	215 x 145 x 75mm	260 x 190 x 85mm
Mounting hole spacing	108*120mm-Φ5	130*130mm-Φ5	180*214mm-Φ5
N.W	0.6Kg	1.3Kg	2.3Kg
G.W	0.65Kg	1.5Kg	2.5Kg

Note: Please operate at the ambient temperature allowed by the controller. If the ambient temperature exceeds the allowable range of the controller, please derate it

M PPT SOLAR CONTROLLER (AN-M PK2 SERIES)



Features of Module

The solar charge controller is a multi-level maximum power point tracking (MPPT) photovoltaic battery charge controller with its own technology. Compared with the PWM controller, the MPPT can improve the control accuracy and the output power of the solar panel can be increased by 5%-30%.

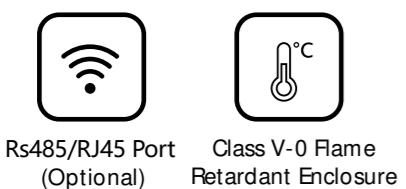
Specification Characteristics



Rated Charge Current	30A-100A
Rated Voltage	12V/24V/36V/48V
System voltage	150V



Protections Parameters Adjustable Battery Type



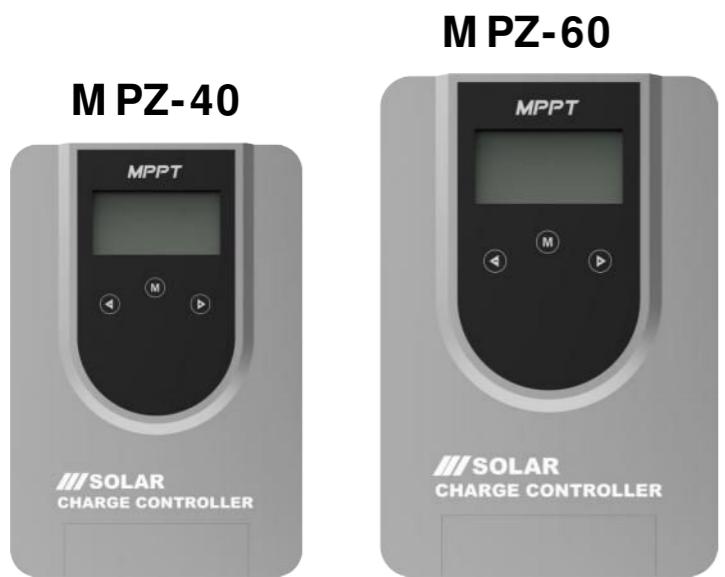
Rs485/RJ45 Port (Optional) Class V-0 Flame Retardant Enclosure



Model	AN-MPK2-40	AN-MPK2-60	AN-MPK2-80	AN-MPK2-100		
Input						
Maximum PV open circuit voltage	150V (at the lowest temperature) 138V (at a standard temperature of 25°C)					
Minimum PV voltage	20V/40V/60V/80V					
Rated Charge Current	30A	40A	50A	60A	80A	100A
Output						
System voltage	12V/24V/36V/48V/ Auto					
Rated Discharge Current	15A	20A	25A	30A	40A	50A
Own consumption	<35mA(48V)					
MPPT highest accuracy	99%					
Maximum charging efficiency	97%					
Charging control mode	Multi-stage(MPPT, Absorption, Float, Equalization, CV)					
Float charge	13.8V/27.6V/41.4V/55.2V					
Absorption charge	14.4V/28.8V/43.2V/57.6V					
Equalization charge	14.6V/29.2V/43.8V/58.4V					
Load disconnection(LVD)	10.8V/21.6V/32.4V/43.2V					
Load reconnection(LVR)	12.6V/25.2V/37.8V/50.4V					
Load control mode	Normal, light control, light and timing control, timing control, reverse light control					
Light control point voltage	5V/10V/15V/20V					
Battery Type	GEL, SLD, FLD and USR(default), Lithium batteries customization 3series 3.7V, 4 series 3.7V, 4series 3.2V, 5series 3.2V					
Other						
Human interface	Color LCD with backlight, 3 buttons					
Cooling mode	AL alloy heat sink and cooling fan					
Wiring	High current copper terminal≤25 mm ² (3AWG) line length 3 meters					
Temperature probe	RS485, RJ45 port					
Communication mode	-20~+55°C					
Working temperature range	-30~+80°C					
Storage temperature range	10%~90% No condensation					
Humidity						
Dimensions						
Product size	250 x 190 x 95mm	280 x 210 x 100mm	350 x 230 x 112mm	/		
Mounting hole spacing	120mm-Φ5	140mm-Φ5	170mm-Φ5	/		
N.W	2.3Kg	3.5Kg	4.6Kg	/		
G.W	2.6Kg	4Kg	5.2Kg	/		

Note: Please operate at the ambient temperature allowed by the controller. If the ambient temperature exceeds the allowable range of the controller, please derate it.

M PPT SOLAR CONTROLLER (AN-MPZ SERIES)



Features of Module

The solar charge controller is a multi-level maximum power point tracking (MPPT) photovoltaic battery charge controller with its own technology. Compared with the PWM controller, the MPPT can improve the control accuracy and the output power of the solar panel can be increased by 5%-30%.

Rated Charge Current	30A-100A
Rated Voltage	12V/24V/36V/48V
System voltage	150V

Function Introduction



Model	AN-MPZ40		AN-MPZ60	
Input				
Maximum PV open circuit voltage	150V (at the lowest temperature), 138V (at a standard temperature of 25°C)			
Minimum PV voltage	20V/40V/60V/80V			
Rated Charge Current	30A	40A	50A	60A
Output				
System voltage	12V/24V/36V/48V/ Auto			
Rated Discharge Current	15A	20A	25A	30A
Own consumption	<35mA(48V)			
MPPT highest accuracy	99%			
Maximum charging efficiency	97%			
Charging control mode	Multi-stage(MPPT, Absorption, Float, Equalization, CV)			
Float charge	13.8V/27.6V/41.4V/55.2V			
Absorption charge	14.4V/28.8V/43.2V/57.6V			
Equalization charge	14.6V/29.2V/43.8V/58.4V			
Load disconnection(LVD)	10.8V/21.6V/32.4V/43.2V			
Load reconnection(LVR)	12.6V/25.2V/37.8V/50.4V			
Load control mode	Normal, light control, light and timing control, timing control, reverse light control			
Light control point voltage	5V/10V/15V/20V			
Battery Type	GEL, SLA, FLD and USR(default), Lithium batteries customization			
	3series 3.7V, 4 series 3.7V, 4series 3.2V, 5series 3.2V			
Other				
Human interface	Color LCD with backlight, touch button			
Cooling mode	Cast aluminum casing			
Wiring	High current copper terminal≤25 mm ² (3AWG)			
Temperature probe	line length 3 meters			
Communication mode	RS485, RJ45 port			
Working temperature range	-20~+55°C			
Storage temperature range	-30~+80°C			
Humidity	10%~90% No condensation			
Dimensions				
Product size	168 x 248 x 94mm		188 x 280 x 94mm	
Mounting hole spacing	138 x 180mm-Φ5		154 x 206mm-Φ5	

Note: Please operate at the ambient temperature allowed by the controller. If the ambient temperature exceeds the allowable range of the controller, please derate it



Portable Solar Generator (AN-M PSG-N)

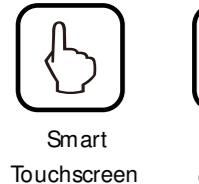


Key Features

- Excellent performance because of double CPU intelligent control technology;
- Built-in LiFePo4 lithium battery;
- The mains supply mode/energy-saving mode/battery mode can be set for flexible;
- Convenient and practical 5VDC-USB output port and 12VDC output port;
- MPPT Controller greatly improving the charging efficiency more than 20%;
- Overcharge protection and overdischarge protection for a longer battery life;
- Safe and reliable with intelligent exhaust fan control;
- Overall automatic protection and alarms including AC output overload protection, short circuit protection. Etc;

Model	AN-M PSG-N500	AN-M PSG-N1000
Rated Power	500W	1000W
Surge Power	1500W(1 second); 650W(10 second); 550W(60 second);	3000W(1 second); 1300W(10 second); 1100W(60 second);
Commercial Power Range	110/120/220/230/240VAC(Optional)	
AC Frequency Range		45-65Hz
AVR Voltage Range	110/120/220/230/240VAC±10%(Auto-sensing)	
Output Frequency Range(AC mode)	Tracking automatically / shared frequency with the commercial inversion state: 50/60±0.5Hz	
Output Wave Form	Pure Sine Wave	
Output Overload	105%<Load<110%±10%: Fault(Turn off output after 60 seconds) 110%<Load<130%±10%: Fault(Turn off output after 10 seconds) 150%<Load±10%: Fault(Turn off output after 1 seconds)	
Max Solar Charger Current	20A	20A
PV Voltage Input Range	15-90VDC(MPPT)	30-90VDC(MPPT)
Max PV Power Input	240W	480W
Battery Type	LiFePO4 lithium battery	
Battery DC Voltage	12VDC	24VDC
Battery Capacity	600WH	1200WH
DC Output	USB-5VDC 2.4A/2 units 12VDC Ports/2 units	
Transfer Time	Typical: 5-8ms(Including detection time)	
Thermal Method	Cooling Fan	
Communication Port	RS485/WIFI(Optional)	
Operating Temperature	-10°C-+50°C	
Operating Humidity	10%-90%	
Short Circuit Protection	Software Protection	
External size	410*210*300mm	410*210*300mm

Lithium Battery Solar System (AN-M PSG-T)



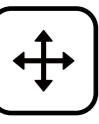
Smart Touchscreen



MPPT Controller



Protections



Moveable



Key Features

- Excellent performance because of double CPU intelligent control technology;
- The mains supply mode/energy-saving mode/battery mode can be set for flexible;
- Convenient and practical 5VDC-USB output port and 12VDC output port;
- MPPT Controller greatly improving the charging efficiency more than 20%;
- Overcharge protection and overdischarge protection for a longer battery life;
- Safe and reliable with intelligent exhaust fan control;
- Touch screen can view system data more convenient;
- Overall automatic protection and alarms including AC output overload protection, short circuit protection. Etc;

Model	AN-M PSG-T-S3000	AN-M PSG-T-S5000	AN-M PSG-T-D5000
Rated Power	3000W	5000W	5000W
Surge Power	6000W	10000W	10000W
Commercial Power Range		110/120/220/230/240VAC(Optional)	
AC Frequency Range		45-65Hz	
AVR Voltage Range		110/120/220/230/240VAC±10%(Auto-sensing)	
Output Frequency Range(AC mode)		Tracking automatically / shared frequency with the commercial inversion state: 50/60±0.5Hz	
Output Wave Form		Pure Sine Wave	
Output Overload		105%<Load<110%±10%: Fault(Turn off output after 60 seconds) 110%<Load<130%±10%: Fault(Turn off output after 10 seconds) 150%<Load±10%: Fault(Turn off output after 1 seconds)	
Max Solar Charger Current	60A	30A	60A
PV Voltage Input Range	34-150VDC(MPPT)	65-150VDC(MPPT)	65-150VDC(MPPT)
Max PV Power Input	1500W	1500W	3000W
Battery Type		Li-ion lithium battery	
Battery DC Voltage	22.2VDC	44.4VDC	44.4VDC
Battery Capacity	2700WH	4500WH	9000WH
DC Output		TYPE C-PD60 USB QC3.0 USB-5VDC 2.4A/2 units	
Transfer Time		Typical: 5-8ms(Including detection time)	
Thermal Method		Cooling Fan	
Communication Port		RS485/WIFI(Optional)	
Operating Temperature		-20°C-+50°C	
Operating Humidity		10%-90%	
Short Circuit Protection		Software Protection	
External size	536*480*505mm	536*480*505mm	536*480*735mm

Lifepo4 Lithium Solar Battery (AN-LPB-T)



Model	AN-LPB-T-24100	AN-LPB-T-24200	AN-LPB-T-48100	AN-LPB-T-48200	AN-LPB-T-48300
Battery Type	LiFePO4				
Rating Voltage	25.6V	25.6V	48V	48V	48V
Capacity	100AH	200AH	100AH	200AH	300AH
Charge Voltage	29.2V	29.2V	54.75V	54.75V	54.75V
Charge Current	100A	100A	100A	100A	200A
Impedance	$\leq 30\text{m}\Omega$ (Max)				
Charging Mode	CC/CV				
Charging Method	Standard Charging 0.2C(Charging Current :20A); Fast Charging 0.5C(Charging Current :50A)				
Rated Discharge Current	$\leq 100\text{A}$,Maximum discharge current 120A				$\leq 200\text{A}$,Maximum discharge current 200A
Over Current	130A	130A	130A	130A	200A
Short Circuit	Recover after removing the short circuit load				
Operating Consumption Current	50mA (Max)				
Operating Temperature	Charge: 0-+55°C; Discharge: -20-+60°C				
Storage Temperature	-20-+40°C				
Cycle Life	2000 cycle@Percentage of recoverable capacity 80%				
Dimensions	410*370*155mm	570*410*165mm	570*410*165mm	860*485*155mm	570*420*740mm
Weight	28kg	45kg	45kg	89kg	146kg
Communication Mode	RS232、CAN、RS485				
Shipped Product Charge	50%-60% battery volume delivery				
Protection & Alarm	Over temperature, overcurrent, short circuit, overcharge, overdischarge, etc.				
Cooling Method	Natural cooling				
Certification	CE, ROHS, UN38.3, MSDS				
IP Grade	IP54				

Key Features

- Long service life over 5 years
- Modular design, small size and light weight
- One key switch machine, the operation is more convenient
- Suitable for long-term charge and discharge cycles
- Adopt multi-level energy consumption management
- Multiple parallel machines, automatic address acquisition without manual operation
- Support high-current charging and discharging
- Front operation and front wiring are convenient for installation and maintenance
- Adopt high-performance processor, international brand devices, high reliability
- Multiple communication interfaces: RS485, RS232, CAN
- Highly compatible BMS, seamless connection with energy storage inverter
- Perfectly compatible with our inverter
- Safety certification: CE, ROHS, UN38.3, MSDS, etc

DEEP CYCLE GEL SOLAR BATTERY (AN-GEL12 SERIES)



Features and Benefits

- This Energy storage battery utilizes gel electrolyte technology. The uniformly distributed gel electrolyte is made by mixing sulfuric acid with silica fume
- The electrolyte can hold the battery plates securely in an immobile gel
- Radial grid design offers this power storage device excellent discharge performance
- Due to 4BS lead paste technology, our deep cycle gel battery provides long lasting service life
- Employing unique grid alloy, special gel formulation and distinct positive and negative lead paste ratio, the maintenance free battery boasts outstanding deep cycle service performance and over discharge recovery ability
- Completely manufactured from high purity raw materials, Anern deep cycle gel battery has extremely low self discharge
- Gas recombination technology ensures excellent seal reaction efficiency, thus delivering no pollution such as acid mist to the environment
- The gel VRLA battery boasts reliable sealing technology which enables security seal performance

Battery Type	Voltage (V)	Capacity (10HR)	Dimensions-Millimeters ($\pm 2\text{mm}$)				ApproxWeight (Kg)	Internal Resistance 25°C
			L	W	H	TH		
AN-GEL12-2.6	12	2.6	71	47	96	102	0.80	56mΩ
AN-GEL12-3	12	3	91	71	100	106	1.25	50mΩ
AN-GEL12-3.5	12	3.5	91	71	100	106	1.32	45mΩ
AN-GEL12-4	12	4	91	71	100	106	1.38	41mΩ
AN-GEL12-4.5	12	4.5	91	71	100	106	1.44	40mΩ
AN-GEL12-5	12	5	91	71	100	106	1.48	39mΩ
AN-GEL12-5.5	12	5.5	91	71	100	106	1.62	37mΩ
AN-GEL12-6	12	6	149	65	96	102	1.90	21.3mΩ
AN-GEL12-7	12	7	149	65	96	102	2.02	21.3mΩ
AN-GEL12-7.5	12	7.5	149	65	96	102	2.13	21.0mΩ
AN-GEL12-9	12	9	149	65	96	102	2.38	19.8mΩ
AN-GEL12-12	12	12	150	98	97	102	3.22	20mΩ
AN-GEL12-17	12	17	181	77	167	-	4.96	18mΩ
AN-GEL12-18	12	18	181	77	167	-	5.25	17mΩ
AN-GEL12-24Y	12	26	165	175	124	-	7.50	13mΩ
AN-GEL12-24P	12	24	166	125	175	-	8.10	13mΩ
AN-GEL12-33	12	32	195	130	156	168	9.70	11mΩ
AN-GEL12-40	12	40	197	165	175	-	12.50	9mΩ
AN-GEL12-50	12	50	228	138	211	215	16.20	8mΩ
AN-GEL12-55	12	55	228	138	211	215	16.90	7mΩ
AN-GEL12-65	12	65	350	166	180	-	20.20	6mΩ
AN-GEL12-80	12	80	258	168	210	214	23.50	5.6mΩ
AN-GEL12-100	12	100	327	172	211	215	26.20	5.0mΩ
AN-GEL12-120	12	120	406	174	210	234	32.90	4.3mΩ
AN-GEL12-150	12	150	484	171	240	-	38.00	3.8mΩ
AN-GEL12-200	12	200	524	238	220	224	55.50	3.2mΩ
AN-GEL12-250	12	250	520	268	219	223	65.50	2.5mΩ