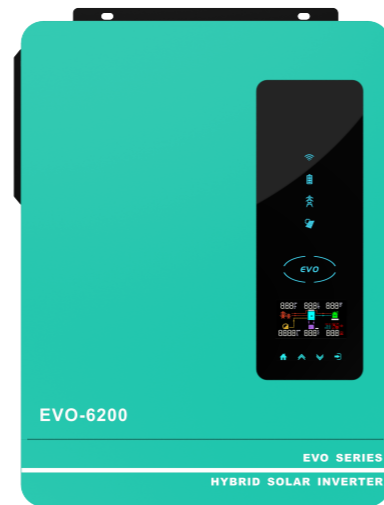


# HYBRID SOLAR INVERTER (EVO SERIES)



**AN-SCI-EVO-3600**



**AN-SCI-EVO-6200**

## Features of Module

- Pure sine wave solar inverter
- Self-consumption and feed-in to the grid
- Inverter runs 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
Maximum PV Input Power	6200W	6500W
<b>GRID-TIE OPERATION</b>		
<b>PV INPUT (DC)</b>		
Nominal 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	
<b>GRID OUTPUT (AC)</b>		
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	
<b>EFFICIENCY</b>		
Maximum Conversion Efficiency(Solar to AC)	98%	
<b>TWO-LOAD OUTPUT POWER</b>		
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
<b>OFF-GRID OPERATION</b>		
<b>AC INPUT</b>		
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
<b>BATTERY MODE OUTPUT(AC)</b>		
Nominal Output Voltage	220/230/240VAC	
Output Waveform	Pure Sine Wave	
Efficiency(DC to AC)	94%	
<b>BATTERY &amp; CHARGER</b>		
Nominal DC Voltage	24VDC	48VDC
Maximum Charging Current(Solar to AC)	120A	
Maximum AC Charging Current	100A	
<b>GENERAL PHYSICAL</b>		
Dimension, D x W x H (mm)	420*350*110mm	450*350*110mm
Net Weight (kgs)	9	10
<b>INTERFACE</b>		
Communication Interface	WIFI	
<b>OPERATING ENVIRONMENT</b>		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10°C - 50°C	
Storage Temperature	-15°C - 60°C	

# Lifepo4 Lithium Solar Battery (AN-LPB-T)

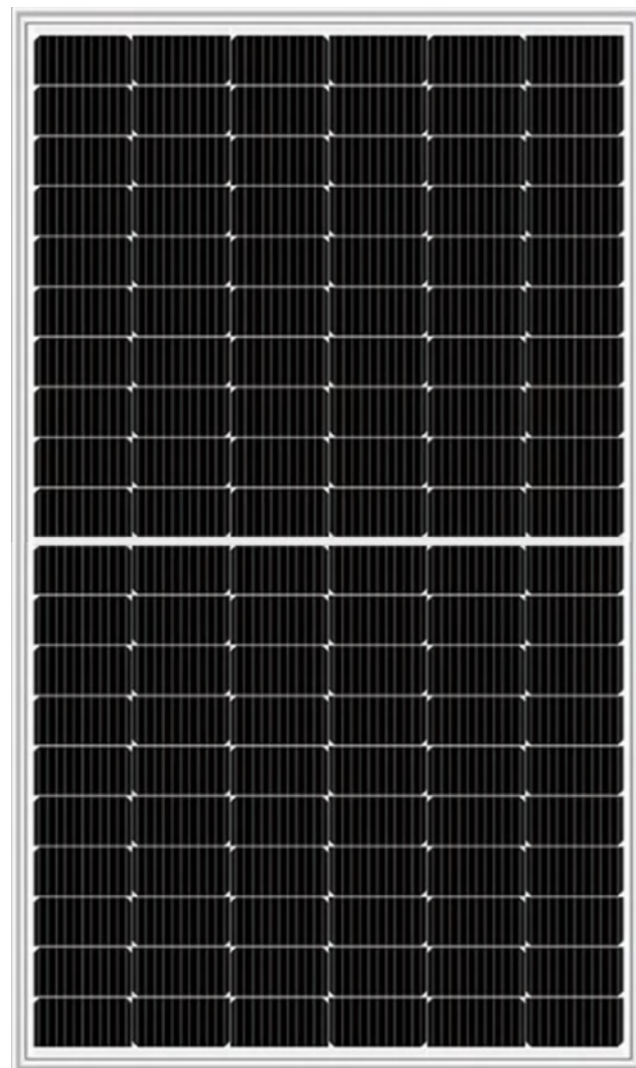


## Key Features





- Long service life over 5 years
- Modular design, small size and light weight
- One key switch for convenient operation.
- Suitable for long-term charge and discharge cycles
- Adopts 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.
- Adopts high-performance processor, international brand devices, high reliability.
- Multiple communication interfaces: RS485, RS232, CAN
- Highly compatible BMS, seamless connection with most inverters.
- Perfectly compatible with our inverters.
- Safety certification: CE, ROHS, UN38.3, MSDS, etc

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	≤30mΩ (Max)				
Charging Mode	CC/CV				
Charging Method	Standard Charging 0.2C(Charging Current :20A); Fast Charging 0.5C(Charging Current :50A)				
Rated Discharge Current	≤100A,Maximum discharge current 120A				≤200A,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	3000 cycle@Percentage of recoverable capacity 80%				
Dimensions	410*370*155mm	570*410*165mm	570*410*210mm	620*410*230mm	455*350*810mm
Weight	28kg	45kg	58kg	90kg	120kg
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				

# HALF CELL MONO PERC SOLAR PANEL (430W-460W)

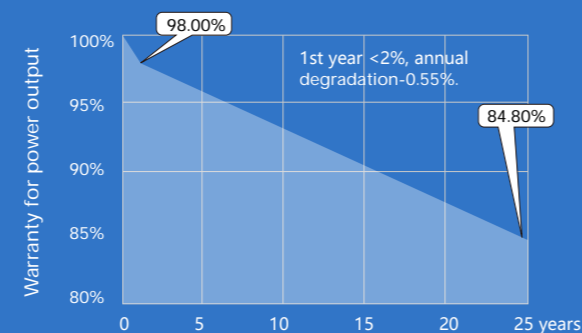


## Features of Module

- 
**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/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	430	435	440	445	460
Maximum power - Pm (W)	430	435	440	445	460
Open circuit voltage - Voc (V)	40.7	40.8	41.0	41.1	41.55
Short circuit current Isc (A)	13.59	13.67	13.74	13.82	14.05
Voltage at maximum power point-Vm (V)	33.9	34.1	34.3	34.5	35.07
Current at maximum power point-Im (A)	12.69	12.77	12.84	12.91	13.12
Module efficiency-n (%)	19.9	20.1	20.3	20.6	21.25

### ELECTRICAL CHARACTERISTICS (NMOT)

Maximum power -Pm (W)	327	330	333	336	346
Open circuit voltage -Voc (V)	38.2	38.3	38.4	38.5	38.89
Short circuit current Isc (A)	10.91	10.95	10.99	11.03	11.16
Voltage at maximum power point-Vm (V)	31.9	32.1	32.2	32.4	32.82
Current at maximum power point-Im (A)	10.26	10.30	10.35	10.40	10.54

\* STC: Irradiation 1000W/m<sup>2</sup>; AM1.5; environmental temperature 25°C; tested according to EN 60904-3;  
 \* NMOT: irradiation 800W/m<sup>2</sup>; 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%

### MECHANICAL PARAMETERS

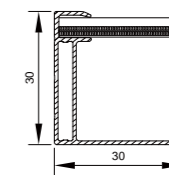
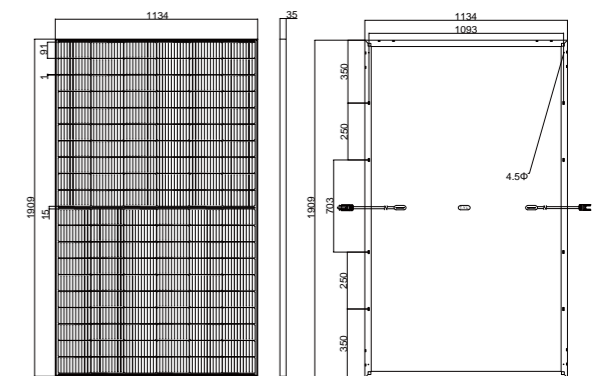
Size	1909x1134x30mm (LxWxH)
Weight	23.1kg
Front glass	3.2mm toughened glass
Cell	Monocrystalline PERC 182x91mm, 60*2 pcs
Backplate	High weather resistance
Frame	Anodic alumina profile
Junction box	IP68, TUV, 3diodes
Cable	4mm <sup>2</sup> , 300mm Wire length can be customized
Connector	MC4 compatible/original EVO2
Packaging mode	31pcs/pack;864pcs/40HQ

### TEMPERATURE PARAMETERS

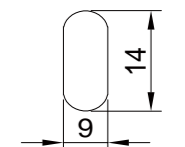
NMOT	42.30 °C (±2°C)
Open circuit voltage temperature coefficient	-0.27%/°C
Short circuit current temperature coefficient	+0.04%/°C
Maximum power temperature coefficient	-0.34%/°C

### 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



SECTION: A-A



Location map of mounting holes

## I-V Curve

### Cell temperature 25°C

