

AS-1.8KW/3.3KW/4.3KW-ECO

HYBRID SOLAR INVERTER



Pure sine wave



WiFi



Two-way energy storage design



Configurable working mode



Support working without battery



RS485



Features

- Support battery-less operation mode;
- Equipped with lithium battery BMS communication function;
- Supports lead-acid, lithium and custom batteries;
- Max charging current up to 200A;
- LCD+LED display with optional APP monitoring.

OEM/ODM



Energy Storage Solution



12V/24V System Hybrid Solar Inverter

Technical Parameters

Model	AS-1.8KW-ECO	AS-3.3KW-ECO	AS-4.3KW-ECO
PV Input			
Max PV Input Power	2500W		5000W
MPPT Tracking Voltage Range	30Vdc-240Vdc		40Vdc-450Vdc
Rated Voltage	180Vdc		240Vdc
Max PV Input Voltage (VOC)	300Vdc		500Vdc
Max PV Input Current	15A		18A
MPPT Tracking Channels (Input Routed)		1 Routed	
Battery & Charging			
Battery Type	Lead-acid Battery / Lithium Battery / Custom Battery		
Rated Battery Voltage	12Vdc		24Vdc
Battery Voltage Range	10.5-15Vdc (default)		21-30Vdc (default)
Max PV Charging Current	100A	120A	150A
Max AC Charging Current	65A	80A	100A
Max Charging Current	100A	120A	150A
Off-Grid Operation			
AC Input Rated Input Voltage		230V (220V or 240V can be set)	
AC Input Mains Voltage Range		165Vac-280Vac / 120Vac-280Vac (can be set)	
AC Input Rated Frequency		50Hz / 60Hz	
AC Input Frequency Range		49Hz-50Hz (50Hz), 59Hz-60Hz (60Hz)	
AC Output Rated Output Voltage		230V (220V or 240V can be set)	
Output Voltage Accuracy		±2%	
Rated Input Frequency		50Hz / 60Hz	
Output Frequency Accuracy		±1%	
Output Wave		Pure Sine Wave	
Hybrid Operation			
AC Input Rated Input Voltage		230V (220V or 240V can be set)	
AC Input Mains Voltage Range		187Vac-264Vac	
AC Input Rated Frequency		50Hz / 60Hz	
AC Input Frequency Range		47Hz-52Hz (50Hz), 57Hz-62Hz (60Hz)	
AC Output Rated Voltage		230Vac (220Vac or 240Vac can be set)	
AC Output Current	7.8A	14.3A	18.7A
On-Grid Operation			
Rated Output Voltage		230Vac (220Vac or 240Vac can be set)	
Grid Voltage Range		187Vac-264Vac	
Rated Output Frequency		50Hz / 60Hz	
Frequency Range		47Hz-52Hz (50Hz), 57Hz-62Hz (60Hz)	
Rated Output Current	7.8A	14.3A	
Power Factor		≥0.98 (Rated Power)	
Efficiency & System			
Maximum Conversion Efficiency		94% (peak value)	
No Load Loss		1% Rated Power (typical value)	
MPPT Tracking Efficiency		≥99.9	
Transfer Time		10ms (typical value)	
Display		LCD+LED	
Cooling Method		Cooling fan in intelligent control	
Communication		RS485 / Mobile APP (WiFi) or GPRS monitoring, optional)	
Protection Degree		IP20	
Installation		Wall-Mounted	
Protection			
Battery Low Voltage Alarm	11Vdc (default value)		22Vdc (default value)
Battery Low Voltage Protection	10.5Vdc (default value)		21Vdc (default value)
Anti-Islanding Protection		±2S	
Overload Power Protection		Automatic protection (battery mode), circuit breaker or insurance (AC mode)	
Output Short Circuit Protection		Automatic protection (battery mode), circuit breaker or insurance (AC mode)	
Temperature Protection		+90°C (turn off inverter and charging)	
Environment			
Operating Temperature		-10°C-50°C	
Storage Temperature		-15°C-60°C	
Noise		≤55dB	
Elevation		2000m (more than derating)	
Humidity		0%-95%, no condensation	
Dimensions And Weight			
Product Size (L*W*H mm)	310*250*91	325*275*102	375*297*102
Package Size (L*W*H mm)	385*305*156	400*330*167	450*352*167
N.W. (kg)	4	5.5	6.7
G.W. (kg)	5	6.5	7.7

Note: Specifications are subject to change without prior notice;
Special voltage and power requirements can be customized according to user needs.