



AS-6.3KW/12.3KW-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 national APP monitoring

OEM/ODM



Energy Storage Solution



48V System Hybrid Solar Inverter

Technical Parameters

Model	AS-6.3KW-ECO	AS-12.3KW-ECO
Power		
Rated Power	6300W	12.3KW
PV Input		
Max PV Input Power	7000W	6000W*2
MPPT Tracking Voltage Range	80Vdc~450Vdc	280Vdc
Rated Voltage	240Vdc	500Vdc
Max PV Input Voltage (VOC)	500Vdc	27A*2
Max PV Input Current	27A	27A*2
MPPT Tracking Channels (Input Routed)	1 Routed	2 Routed
Battery & Charging		
Battery Type	Lead-acid Battery / Lithium Battery / Custom Battery	
Rated Battery Voltage	48Vdc	
Battery Voltage Range	42-60Vdc (default)	
Max PV Charging Current	120A	200A
Max AC Charging Current	80A	160A
Max Charging Current	120A	200A
Off-Grid Operation		
AC Input Rated Input Voltage	230V (220V or 240V can be set)	
AC Input Mains Voltage Range	165Vdc~260Vdc / 120Vdc~280Vdc (can be set)	
AC Input Rated Frequency	50Hz / 60Hz	
AC Input Frequency Range	45Hz~55Hz (60Hz) / 55Hz~65Hz (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	165Vdc~264Vdc	
AC Input Rated Frequency	50Hz / 60Hz	
AC Input Frequency Range	47Hz~52Hz (60Hz) / 57Hz~62Hz (60Hz)	
AC Output Rated Voltage	230Vdc (220Vdc or 240Vdc can be set)	
AC Output Current	27.4A	53.5A
On-Grid Operation		
AC Input Rated Input Voltage	230Vdc (220Vdc or 240Vdc can be set)	
Grid Voltage Range	165Vdc~260Vdc	
Rated Output Frequency	50Hz / 60Hz	
Frequency Range	47Hz~52Hz (60Hz) / 57Hz~62Hz (60Hz)	
Rated Output Current	27.4A	53.5A
Power Factor	≥0.98 (Rated Power)	
Efficiency & System		
Maximum Conversion Efficiency (Battery Discharge)	94% (peak value)	
No Load Loss (Battery Discharge)	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) Monitoring or GPRS monitoring (Optional)	
Protection Degree	IP20	
Installation	Wall-Mounted	
Protection		
Battery Low Voltage Alarm	44Vdc (default value)	
Battery Low Voltage Protection	42Vdc (default value)	
Anti-islanding Protection	SIS	
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 (Run 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)	380*120*112	630*540*130
Package Size (L*W*H mm)	465*179*187	730*635*225
N.W. (kg)	8	22
G.W. (kg)	9.5	24.5

Note: Specifications are subject to change without prior notice.
Note: The inverter is not a power supply. It is a power supply for the system.
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