

AS-15.3KW-ECO

HYBRID SOLAR INVERTER



Pure sine wave



WiFi



Two-way energy storage design



Configurable working mode



Support working without battery



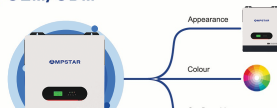
RS485



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



48V System Hybrid Solar Inverter

Technical Parameters

Model	AS-15.3KW-ECO
Power	
Rated Power	15.3KW
PV Input	
Max PV Input Power	90kW
MPPT Tracking Voltage Range	80Vdc~450Vdc
Rated Voltage	280Vdc
Max PV Input Voltage (VOC) (at the lowest temperature)	500Vdc
Max PV Input Current	325A
MPPT Tracking Channels (Input Routed)	2 Routed
Battery & Charging	
Battery Type	Lead-acid Battery / Lithium Battery; Custom Battery
Rated Battery Voltage	512Vdc
Battery Voltage Range	42~512Vdc (default)
Max PV Charging Current	220A
Max AC Charging Current	160A
Max Charging Current	220A
On-Grid Operation	
AC Input - Rated Input Voltage	220VAC / 230VAC / 240VAC
AC Input - Main Input Voltage Range	180VAC~280VAC / 120VAC~280VAC (can be set)
AC Input - Rated Input Frequency	50Hz / 60Hz
AC Input - Input Frequency Range	49Hz~50Hz (50Hz) / 59Hz~60Hz (60Hz)
AC Output - Rated Output Voltage	220V / 230V / 240V
AC Output - Output Voltage Accuracy	±2%
AC Output - Rated Input Frequency	50Hz / 60Hz
AC Output - Output Frequency Accuracy	±1%
AC Output - Output Wave	Pure Sine Wave
Hybrid Operation	
AC Input - Rated Input Voltage	220V / 230V / 240V
AC Input - Main Input Voltage Range	180VAC~280VAC
AC Input - Rated Input Frequency	50Hz / 60Hz
AC Input - Input Frequency Range	47Hz~52Hz (50Hz) / 57Hz~62Hz (60Hz)
AC Output - Rated Voltage	220VAC / 230VAC / 240VAC
AC Output - Output Current	55.8A / 53.5A / 51.3A
On-Grid Operation	
AC Output - Rated Output Voltage	220VAC / 230VAC / 240VAC
AC Output - Grid Voltage Range	167VAC~250VAC
AC Output - Rated Output Frequency	50Hz / 60Hz
AC Output - Frequency Range	47Hz~52Hz (50Hz) / 57Hz~62Hz (60Hz)
AC Output - Rated Output Current	55.8A / 53.5A / 51.3A
Power Factor	>0.99 (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	YES
Overload Protection (battery mode) / Circuit Breaker or Insurance (AC mode)	Automatic Protection (battery mode) / Circuit Breaker or Insurance (AC mode)
Output Short Circuit Protection	Automatic Protection (battery mode) / Circuit Breaker or Insurance (AC mode)
Environment	
Temperature Protection	>90°C (turn off inverter and charging)
Operating Temperature	-10°C~50°C
Storage Temperature	-15°C~50°C
Noise	≤55dB
Elevation	2000m (more than desalting)
Humidity	0%~95% (No condensation)
Dimensions And Weight	
Product Size (L*W*H mm)	630*540*130
Package Size (L*W*H mm)	730*590*225
N.W. (kg)	22
G.W. (kg)	24.5

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