Hybrid Solar Inverter
HMS 5.6KW Series



Smart control

Smart control mode, auto switch for different demand
usb communication portal

Wide PV Range

90-500v panels quantity depends on different situations

Charger

Inbuilt 60A AC charger
Inbuilt 100A MPPT solar charger

3 Phases parallel connection



Add Power Parallel Connection



Technical Specification

Models	5.6KW
Permitted parallel number	1~6units
AC mode	
Rated input voltage	220/230Vac
Input voltage range	(170Vac~280Vac)±2%
Frequency	50Hz/60Hz (Auto detection)
Frequency Range	47±0.3Hz~55±0.3Hz(50Hz);
Overload/short circuit protection	Circuit breaker
Efficiency	>95%
Conversion time (bypass and inverter)	10ms(typical)
AC reverse protection	Available
Maximum bypass overload current	40A
Inverter mode	
Output voltage waveform	Pure sine wave
Rated output power (VA)	5600
Rated output power (W)	5600
Power factor	1
Rated output voltage (Vac)	230Vac
Output voltage error	±5%
Output frequency range (Hz)	50Hz±0.3Hz 60Hz±0.3Hz
Maximum Efficiency	>92%
Overload protection	(102%< load <125%) ±10%: report error and turn off the output after 1 minutes; (125%< load < 150%) ± 10%: report error and turn off the output after 10 seconds; Load >150% ±10%: report error and turn off the output after 5 seconds
Peak power	11200VA
Loaded motor capability	4HP
Rated battery input voltage	48V(Minimumstarting voltage 44V)
Battery voltage range	40.0Vdc~60Vdc±0.6Vdc(undervoltage alarm/turnoff volatage/ overvoltage alarm/overvoltage restoration...settable LCD screen)
Power saving mode self consumption	Load⩽50W
AC charging	
Battery type	Lead acid or lithium battery
Maximum charge current(can be set)	0-60A
Charge current error	± 3Adc
Charge voltage range	40-58Vdc
Short circuit protection	Circuit breaker and blown fuse
Circuit breaker specifications	40A
Overcharge protection	Alarm and turn off charging after 1 minute
PV charging	
Maximum PV open circuit voltage	500Vdc
PV operating voltage range	90-500Vdc
MPPT voltage range	90-450Vdc
Battery voltage range	40-60Vdc
Maximum PV input power	6000W
Maximum PV input current	22A
PV charging current range (can be set)	0-100A
Charging short circuit protection	Blown fuse
Wiring protection	Reverse polarity protection
Hybrid charging Max charger current specifications (AC charger+PV charger)	
Max charger current(can be set)	0-100A
Certified specifications	
Certification	CE(IEC62109-1)/CETL(UL1741 C22.2 NO.107.1)/FCC/SAA
EMC certification level	EN61000
Operating temperature range	-10°C to 55°C
Storage temperature range	-25°C~60°C
Humidity range	5% to 95%(Conformalcoating protection)
Noise	⩽60dB
Heat dissipation	Forced air cooling, variable speed of fan
Communication interface	USB/RS485(WiFi/GPRS)/Drycontact control
Product Size(D*W*H)	455mm*340mm*140mm
Packing Size(D*W*H)	533mm*423mm*225mm
N.W.(Kg)	11.5KG
G.W.(Kg)	13.0KG