

SUNMAX Series MPPT Hybrid Solar Inverter

> MAIN FUNCTION

- Micro Processor Control
- Smart size design
- Cool start
- Compatibility with generators
- with full meanings and buzzer alarms Design
- Application for Fan, light ,TV and office Appliances
- Automatic Line-to-Battery Switch overLow battery and high protection
- Three stage Intelligent Automatic Charging Mode Technology
- Automatic charge while AC recovery(off model charging)
- High Efficient DC-to-AC conversion.minimizing energy loss
- Over load,short circuit protection Over charge , discharge protection
- Battery type setup to get the best charge voltage and mode
- AC Charge current select with 25~100% normal charge current
- Building inside with MPPT solar controller
- Full automatic and silent operation
- Isolated output
- Full Multi-function LED Display
- Intelligent Variable speed fan operation

Feature

Sine Wave Inverter /Charger System

The Desirable Long Backup Power Solution For Home And Office Appliances.



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> TECHNICAL PARAMETER

SPECIFICATION	MODEL	sunmax-1KW	sunmax-2KW	sunmax-3KW	sunmax-4KW	sunmax-5KW	sunmax-6KW
DC INPUT							
Input Voltage(Vdc)		12V/24V/48V			24V/48V		
Min DC start voltage(Vdc)		10V/20V/40V			20V/40V		
AC Bypass							
Nominal Input Voltage		110V or 230Vac(waveform:Sine or generator)				230Vac(waveform:Sine or generator)	
Input AC Range(Vac)		90Vac±4%-135Vac±4% or 184Vac±4%-253Vac±4%				184Vac±4%-253Vac±4%	
Frequency Range(Hz)		57Hz or 60Hz(47Hz -53Hz for 50Hz)-----{57Hz -63Hz for 60Hz}					
Input Frequency(Hz)		50Hz/ 60Hz (Auto detection)					
Bypass Output Voltage(Vac)		Same As Input Voltage					
Bypass Output Frequency(Hz)		Same As Input Frequency					
Pass through without Battery		Yes					
Max Bypass Overload Current		10A		30A		40A	
AC Efficiency		> 95%					
Transfer Time(ms)		20ms (typical)					
Solar Controller(MPPT)							
Solar controllerwith		40-60A 12V/24V/48V (options controller price will be extra added)					
Normal Battery Voltage(Vdc)		12/24/48VDC					
Battery Type Choose		Sealed					
Fast Charge Voltage(Vdc)		14.0V ;X2/24V; X4/48V					
Folat Charge Voltage(Vdc)		13.8V;X2/24V;X4/48V					
Overcharge Alarm Voltage(Vdc)		15.0V;X2/24V;X4/48V					
Overcharge Protection Voltage(Vdc)		15.0V;X2/24V;X4/48V					
Overcharge Recovery Voltage(Vdc)		13.6V ;X2/24V ;X4/48V					
Input P.V. Range(Vdc)		≤150VDC					
Solar Charge Current(A)		40A		50A		60A	
AC CHARGER							
Charge mode Input Voltage Range		80~145Vac or 90~255Vac			100~255Vac		
Automatic Charge mode		Three stage charge mode:Boost CC (constant current stage) → Boost CV (constant voltage stage) → Float (constant voltage stage)					
Nominal Charge Voltage		According to the battery type setup					
Charge Current(A)		17.5A/35A/70A					
Charge boost voltage(v)		According to the battery type setup(12V BAT:14-15.5v 24V BAT:28-31V48V BAT:56-62V 96V BAT:112-124V)					
Charge Floating Voltage(V)		According to the battery type setup (12V BAT: 13.3-13.7, 24v BAT: 26.6-27.6, 48V BAT:53.2-55.2V 96V BAT:106.4-110.4V)					
Over Charge Protection		Bat. V ≥15.7Vdc, beeps 0.5s every 1s & fault after 60s (15.7 for 12v, 31.4V for 24V, 62.8V for 48V, 125.6V for 96V)					
Charger Short Circuit Protection		Circuit breaker					
INVERTER							
Capacity(VA)		1000	2000	3000	4000	5000	6000
Output Power(W)		1000	2000	3000	4000	5000	6000
Power Factor(PF)		1					
Output Voltage		120VAC or 230VAC (Sine wave)				230VAC (Sine wave)	
Output Frequency		50/60 ± 0.3Hz(auto tracking main first power connection)					
Wave		pure sine wave					
Inversion Efficiency		>88%					
Over load capacity		"(110%<load<125%) ±10%: Fault (shutdown output) after 15 minutes;					
Low Battery Alarm		10.5Vdc ± 0.3Vdc for 12V battery, 21.0Vdc ± 0.6Vdc for 24V battery, 42.0Vdc ± 1.2Vdc for 48V battery, 84.0Vdc ± 2.4Vdc for 96V battery					
Power save		rLoad ≤25W (Enabled on "P/S auto" setting of Remote control)					