



## Mash MASKN-SC Series Low Frequency Off-Grid Solar Generator

### Main Features

- Extremely low return noise, no disturbance to talking quality.
- Use-friendly interface, LED simulative display and computer screen display of inverter operation status.
- RS232 port, smart power management software, automatic file saving and shutting down at power abnormalities.
- Special charging system design for better protection of battery life.
- Short circuit, overload, over voltage and low battery protection.
- Compatible with generators and suitable for harsh environment where power voltage is extremely unstable.

### Overview:

Sine Wave Inverter/Charger System The Desirable Long Backup Power Solution for Home and Office Appliances

**Categories:** [Solar Inverters](#)

## Product Description

### Specifications:

MODEL	MASKN-SC	MASKN-SC	MASKN-SC	MASKN-SC	MASKN-SC	MASKN-SC
SPECIFICATION	1KW/12	2KW/24	3KW/24	4KW/48	5KW/48	6KW/48
DC INPUT						
Input Voltage(Vdc)	12V/24V			24V		

<b>Min DC start voltage(Vdc)</b>	10V/20V	20V				
<b>AC Bypass</b>						
<b>Nominal Input Voltage</b>	110V or 230Vac (waveform: Sine or generator)			230Vac(waveform: Sine or generator)		
<b>Input AC Range(Vac)</b>	90Vac±4%-135Vac±4% or 184Vac±4%-253Vac±4%			184Vac±4%-253Vac±4%		
<b>Frequency Range(HZ)</b>	57Hz or 60Hz(47Hz -53Hz for 50Hz)-----{57Hz -63Hz for 60Hz}					
<b>Input Frequency(Hz)</b>	50Hz/ 60Hz (Auto detection)					
<b>Bypass Output Voltage(Vac)</b>	same as input voltage					
<b>Bypass Output Frequency(Hz)</b>	same as input frequency					
<b>Pass through without Battery</b>	Yes					
<b>Max Bypass</b>						
<b>Overload Current</b>	10A	30A		40A		
<b>AC Efficiency</b>	> 95%					
<b>Transfer Time(ms)</b>	20ms (typical)					
<b>Solar controller</b>						
<b>Solar controller</b>	50A/12V OR 24V	50A/12V OR 24V	50A/12V OR 24V	50A/ 24V	50A/ 24V	50A/ 24V
<b>AC CHARGER</b>						
<b>Charge mode</b>						
<b>Input Voltage Range</b>	95~127Vac or 196~243Vac			196~243Vac		
<b>Automatic Charge mode</b>	Three stage charge mode: Boost CC (constant current stage) → Boost CV (constant voltage stage) → Float (constant voltage stage)					

<b>Nominal Charge Voltage</b>	According to the battery type setup					
<b>Charge Current(A)</b>	17.5A/35A/70A					
<b>Charge boost voltage(v)</b>	According to the battery type setup( 12V BAT:14-15.5v 24V BAT: 28-31V 48V BAT:56-62V 96V BAT:112-124V)					
<b>Charge Floating Voltage(V)</b>	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)					
<b>Over Charge Protection</b>	Bat. V $\geq$ 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)					
<b>Charger Short Circuit Protection</b>	Circuit breaker					
<b>(INVERTER)</b>						
<b>Capacity(VA)</b>	1000	2000	3000	4000	5000	6000
<b>Output Power(W)</b>	1000	2000	3000	4000	5000	6000
<b>Power Factor(PF)</b>	1					
<b>Output Voltage</b>	120VAC or 230VAC (Sine wave)			230VAC (Sine wave)		
<b>Output Frequency</b>	50/60 $\pm$ 0.3Hz(auto tracking main first power connection)					
<b>Wave</b>	pure sine wave					
<b>Inversion Efficiency</b>	>88%					
<b>Over load capacity</b>	(110%<load<125%) $\pm$ 10%: Fault (shutdown output) after 15 minutes; (125%<load<150%) $\pm$ 10%: Fault (shutdown output) after 60s; Load>150% $\pm$ 10%: Fault (shutdown output) after 20s					
<b>Low Battery Alarm</b>	10.5Vdc $\pm$ 0.3Vdc for 12V battery, 21.0Vdc $\pm$ 0.6Vdc for 24V battery, 42.0Vdc $\pm$ 1.2Vdc for 48V battery, 84.0Vdc $\pm$ 2.4Vdc for 96V battery					
<b>Power saver</b>	Load $\leq$ 25W (Enabled on "P/S auto" setting of Remote control)					

**AMBIENT**

**Noise(dB)** 60dB max.

**Temperature** 0°C to 40°C

**Humidity** 5% to 95%

**Sea Level(m)** ≤1500

**DIMENSION**

**Packing size** L630mm\*W392mm\*H295mm L870mm\*W392mm\*H295mm

**Warranty** 2 years Manufacturing Warranty