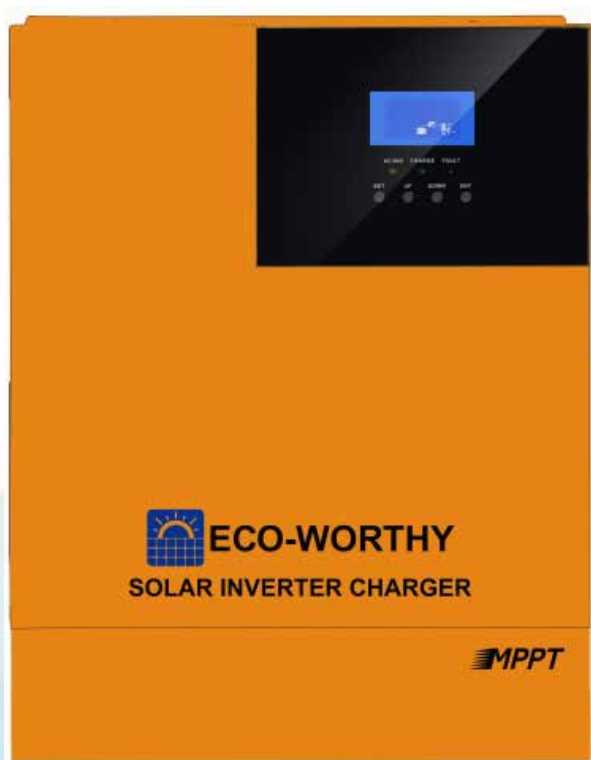


5000W 48V

All-in-one Solar Charger Inverter

User Manual



SUPPORT

If you are experiencing technical problems and cannot find a solution in this manual, please contact ECO-WORTHY for further assistance.

Technical parameters

AC mode	
Rated input voltage	220/230Vac
Input voltage range	(170Vac~280Vac) $\pm 2\%$
Frequency	(90Vac-280Vac) $\pm 2\%$
Frequency range	50Hz/ 60Hz (auto-sensing)
Overload/short- circuit	47 $\pm$ 0.3Hz ~ 55 $\pm$ 0.3Hz (50Hz);
protection	57 $\pm$ 0.3Hz ~ 65 $\pm$ 0.3Hz (60Hz);
Efficiency	Breaker
Conversion time	>95%
(Bypass and inverting)	10ms (Typical value)
AC reverse flowing protection	yes
Maximum bypass overload current	40A
Inverter mode	
Output voltage waveform	Pure sine wave
Rated output power (VA)	5000(4350/4500/4800/5000)
Rated output power (W)	5000(4350/4500/4800/5000)
Power factor	1
Rated output voltage (Vac)	230Vac(200/208/220/240Vac Settable)
Output voltage error	$\pm 5\%$
Output frequency range (Hz)	50Hz $\pm$ 0.3Hz 60Hz $\pm$ 0.3Hz
Efficiency	>90%
Overload protection	(102%<load<125%) $\pm 10\%$: reporting error and turn off the output after 5 minutes; (125%<load<150%) $\pm 10\%$: reporting error and turn off the output after 10 seconds; Load>150% $\pm 10\%$: reporting error and turn off the output after 5 seconds;
Peak power	10000VA
Loaded motor capacity	4HP
Output short-circuit protection	Breaker
Specification of bypassbreaker	40A
Rated battery input voltage	48V (minimum start voltage 44V)
Battery voltage range	40.0Vdc~60Vdc $\pm$ 0.6Vdc (undervoltage alarm/turnoff voltage/overvoltage alarm/overvoltage restoration...settable LCD screen)

Power saving mode	Load ≤50W
AC charging	
Battery type	Lead acid or lithium battery
Maximum charge current	60A
Charge current error	± 5A _{dc}
Charge voltage range	40–60V _{dc}
Short-circuit protection	Breaker and blown fuse
Breaker specification	40A
Overcharge protection	Turn off charge after 1min alarm
PV charging	
Maximum PV open-circuit voltage	500V _{dc}
PV input short circuit current(I _{SC})	30A
PV operation voltage range	120-500V _{dc}
MPPT voltage range	120-450V _{dc}
Battery voltage range	40-60V _{dc}
Maximum input power	5200W
Charge current range of solar energy (settable)	0-80A
Charge short-circuit protection	Blown fuse
Wiring protection	Inverse wiring protection
Authentication specification	
Specification authentication	CE(IEC62109-1)/CETL(UL 1741 C22.2 NO.107.1)
EMC authentication grade	EN61000
Operation temperature range	-10°C to 55°C
Storage temperature range	-25°C ~ 60°C
Humidity range	5% to 95% (three-proof paint protection)
Noise	≤60dB
Thermal dissipation	Forced cooling with adjustable air speed
Communication interface	USB/RS485 (WiFi/GPRS)/dry node control
Dimension (L*W*D)	426mm*322mm*126mm
Weight (kg)	10.5