

Solar Storage Inverter

User Manual



Product Model

ECO-INV-48V3000WSR01

8. Technical Parameter

Model	ECO-INV-48V3000WSR01
AC mode	
Rated input voltage	220/230Vac
Input voltage range	(170Vac~280Vac) $\pm 2\%$ (90Vac-280Vac) $\pm 2\%$
Frequency	50Hz/ 60Hz (auto-detect)
Frequency range	47 ± 0.3 Hz ~ 55 ± 0.3 Hz (50Hz); 57 ± 0.3 Hz ~ 65 ± 0.3 Hz (60Hz);
Overload/short- circuit protection	Breaker
Efficiency	>95%
Conversion time	10ms (Typical value)
(Bypass and inverting)	
AC reverse flowing protection	yes
Maximum bypass overload current	30A
Inverting mode	
Output voltage waveform	Pure sine wave
Rated output power (VA)	3300
Rated output power (W)	3300
Power factor	1
Rated output voltage (Vac)	230Vac(200/208/220/240Vac Settable)
Output voltage error	$\pm 5\%$
Output frequency range (Hz)	50Hz ± 0.3 Hz/60Hz ± 0.3 Hz
Efficiency	>92%
Overload protection	(102%<load<125%): Alarm and shutdown after 5 minutes. (125%<load<150%): Alarm and shutdown after 10 seconds. Load>150%: Alarm and shutdown after 5 seconds.
Peak power	6000VA
Loaded motor capacity	2HP
Output short-circuit protection	Breaker
Specification of bypass breaker	40A
Rated battery input voltage	48V (minimum start voltage 44V)
Battery voltage range	40.0Vdc~60Vdc ± 0.6 Vdc (undervoltage alarm/turnoff voltage/overvoltage alarm/overvoltage restoration...settable LCD screen)

Power saving mode	Load $\leq 50W$
AC charging	
Battery type	Lead acid or lithium battery
Maximum charge current	60A
Charge current error	$\pm 5A_{dc}$
Charge voltage range	40–60Vdc
Short-circuit protection	Breaker and blown fuse
Breaker specification	30A
Overcharge protection	Alarm, stop charging after 1 minute
PV charging	
Max. PV open-circuit voltage	145Vdc
PV operation voltage range	60-145Vdc
MPPT voltage range	60-115Vdc
Battery voltage range	40-60Vdc
Maximum input power	3400W
Charge current range of solar energy (settable)	0~60A
Charge short-circuit protection	Blown fuse
Wiring protection	Inverse wiring protection
Max. hybrid charging current (PV+AC)	0~120A
Certified specifications	
Certification	CE(IEC62109-1)/CETL(UL1741 C22.2 NO.107.1)/FCC/SAA
EMC authentication grade	EN61000, C2
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	$\leq 60dB$
Thermal dissipation	Forced cooling with adjustable air speed
Communication interface	USB/RS485 (WiFi/GPRS)/dry node control
Dimension (L*W*D)	378*280*103mm
Weight (kg)	6.2