

PV Grid-Connected Inverter

EPI-2500-48

epcom[®]
POWER ⚡ LINE

Technical Specifications

MODEL	EPI-2500-48
Rated power	2500 W
Battery voltage	48 V
PV INPUT	
Max. Entrada de Volt. (Voc)	150 V (optional)
Max. input voltage (Voc) (Vmp)	65 ~ 120 Vdc (optional)
Max. charging current	65 A
Recommended PV configuration	3500 W
AC INPUT	
AC input range (bypass mode)	0 ~ 132 Vac (high-end limit)
Rated input voltage	100 V / 110 V / 115 V / 120 Vac
Rated Input frequency	50 Hz / 60 Hz ± 5 Hz (auto-sense)
Max. charging current	30 A
INVERTER OUTPUT	
Output voltage	100 V / 110 V / 115 V / 120 Vac ± 2%
Rated output power	2500 W
Power factor	1
Rated output frequency	50 Hz / 60 Hz ± 1%
Max. efficiency (resistive load)	≥ 85%
Sleep mode	Settable (< 3% load) access in ≤ 2 min
Output voltage harmonic	≤ 3% (linear load)
BATTERIES	
Charging current	5 ~ 65 A settable
DOD	42 ~ 52.8 Vcd
EOD	38.4 ~ 48 Vcd
Equalizing charge voltage	55.2 ~ 60 Vcd
Floating charge voltage	52.8 ~ 55.2 Vcd
Restoration point of over-voltage	62.0 Vcd

OTHERS	
Transfer time	3 ~ 6 ms (typical); ≤ 10 ms (max.)
Overload (linear load)	≥ 105%: transfer to bypass in 5 mins
	≥ 110%: transfer to bypass in 2 mins
	≥ 125%: transfer to bypass in 1 min
	≥ 150%: transfer to bypass in 10 s
	≥ 180%: shut down inverter in 1 s
ECO mode (optional)	Load < 3% (settable), Yes / No settable
No-load shutdown (optional)	Load < 3% ~ 50%, Yes / No settable
Load adaptation	Inductive load: ≤ 30%; capacitive load: ≤ 50%; resistive load: ≤ 100%
Protections	Output overload - short-circuit - overdischarge - overcharge - battery reverse polarity - PV reverse polarity
Lightning protection	Class III
Communications	RS232 / USB / RS485 / SNMP / WiFi / Bluebooth (optional)
Standards	IEC62040, IEC / EN 61000
IP rating	IP21
Display	LCD & LED
Operating temperature	0°C ~ 40°C
Relative humidity	≤ 93%
Noise	< 50 dB
Dimensions (W × D × H) (mm)	480×380×202
Packaged dimensions (W × D × H) (mm)	545×458×278
Net weight (kg)	32.8
Gross weight (kg)	34.3

