

PV On-Grid Connected Inverter

EPIG-1K / EPIG-2K

epcom[®]
POWER ⚡ LINE

Technical Specifications

Modelo	EPIG-1K	EPIG-2K
INPUT (DC)		
Max. DC input power	1200 W	2300 W
Max. DC input voltage	500 V	500 V
Starting voltage	100 V	150 V
Rated voltage	380 V	380 V
DC input voltage range	80 V ~ 500 V	100 V ~ 500 V
Full-load MPPT voltage range	110 V ~ 500V	175 V ~ 500 V
Max. input current	10 A	12 A
Number of independent MPP inputs	1	1
Max. number of PV strings	1	1
OUTPUT (AC)		
Rated AC output power	1000 W	2000 W
Max. AC output power	1100 W	2200 W
Max. AC output current	5.5 A	11 A
Rated output voltage range	220 V / 230 V / 240 V /; 180 V ~ 270 V	
Rated grid frequency range	50 / 50 ± 5 Hz, 60 / 60 ± 5 Hz	
Power factor	1	
THD (rated output)	< 3%	
EFFICIENCY		
Max. efficiency	96%	97%
European efficiency	95%	96%
MPPT efficiency	0.999	
PROTECTIONS		
DC input reverse polarity protection	Yes	
Input DC impedance monitoring		
Leakage protection		
AC short-circuit protection		
Mains power monitoring		
Output DC component detection		
GENERAL DATA		
Self-consumption (at night)	< 0.5 W	
Isolation type	Transformerless	
Display	2 × LED and LCD	
Communications	RS485 / WiFi / Zigbee	
Cooling method	Natural cooling	
Noise	< 30 dB	
Operating temperature	- 25 ~ 60 °C	
Relative humidity	0 ~ 95% non-condensing	
Altitude	2000 m	
IP rating	IP65	
Installation environment	Outdoor or indoor	
Installation method	Wall mounting	
Dimensions (W × D × H) (mm)	335 × 355 × 147	
Packaged dimensions (W × D × H) (mm)	405 × 465 × 240	
Net weight (kg)	12.5	
Gross weight (kg)	15	



High Efficiency, High Benefits

- Transformerless design, maximum efficiency up to 97%.
- Advanced MPPT technology with MPPT efficiency up to 99.9%.
- Wide input voltage range (100 Vdc ~ 500 Vdc), flexible configuration for solar panels.

Easy Installation, Flexible Operation

- Small footprint.
- Waterproof and dustproof (IP65) design.
- No fan, low noise (noise level < 30 dB), suit for indoor installation.
- Pluggable waterproof connector, easy installation and maintenance. Knock activated LCD; RS485 / Wi-Fi / GPRS communications.

Robust and Reliable; Lasting Benefit

- Intelligent failure detection, alarm and protections.
- Natural cooling; 25 years lifetime.
- Wide operating temperature range -25 ~ +60 °C, continuous power generation at full load in high temperature environment.
- TUV / CE / CQC certified.

Principle Diagram

