PV On-Grid Connected Inverter
EPIG-3KV2 / EPIG-5KV3

epcom POWER LINE

Technical Specifications

Model	EPIG-3KV2	EPIG-5KV3
INPUT (DC)		
Max. DC input power	3,900W	6,500 W
Max. DC input voltage	600V	
Starting voltage	120V	
Rated input voltage	360V	
MPPT voltage range	90V - 550V	
Full-load MPPT voltage range	300 V ~ 480V	250 V ~ 480 V
Max. input current	11 A	11 A x 2
Number of MPPT	1	2
Max. number of PV strings	1	2
OUTPUT (AC)		
Rated AC output power	3,000 W	5,000 W
Max. AC output power	3,000 W	5,000 W
Max. AC output current	13 A	21.3 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	>0.99	
THD (rated output)	< 0.5%	
EFFICIENCY		
Max. efficiency	97.8%	
European efficiency	97.3%	
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	LED indicators	
Communications	RS485 / WiFi / Ethernet	
Cooling method	Natural cooling	
Noise	< 40 dB	
Operating temperature	−25 ~ 60 °C	
Relative humidity	0 ~100%	
Altitude	2000 m	
IP rating	IP65	
Installation environment	Outdoor or indoor	
Installation method	Wall mounting	
Dimensions (W× D × H) (mm)	310x385x120	370x420x127
Net weight (kg)	<9Kg	<11Kg

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~+60ºC, continuous power generation at full load in high temperature environment.
- TUV / CE / CQC certified.

TÜVRheinland ZERTIFIZIERT

Geprüft nach *Tested acc. to*
IEC 62109-1:2010
IEC 62109-2:2011
EN 62109-1:2010
EN 62109-2:2011

Principle Diagram