

Grid-Connected PV Inverter

EA1KLPV / EA1K5LPV / EA2KLPV



Features

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

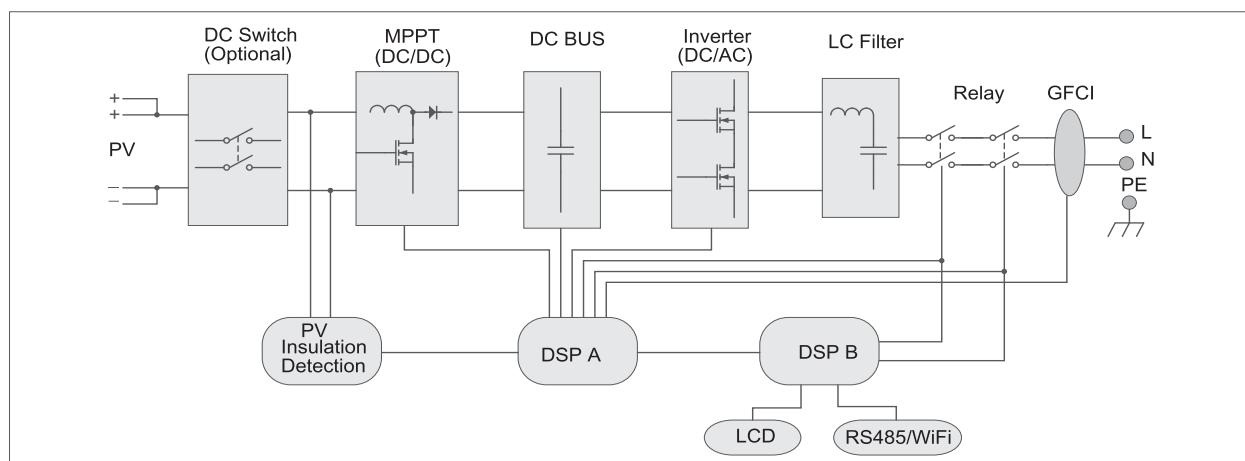
Robust and Reliable; Lasting Benefits

- Intelligent failure detection, alarm and protections
- Natural cooling; 25 years lifetime
- Wide operating temperature range $-25^{\circ}\text{C} \sim +60^{\circ}\text{C}$, continuous power generation at full load in high temperature environment
- TUV / CE / CQC certified

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

Block diagram



Technical Data

MODEL	EA1KLPV	EA1K5LPV	EA2KLPV
INPUT (DC)			
Max. DC input power	1200 W	1800 W	2300 W
Max. DC input voltage	500 V	500 V	500 V
Starting voltage	100 V	150 V	150 V
Rated voltage	380 V	380 V	380 V
DC input voltage range	80 V ~ 500 V	100 V ~ 500 V	100 V ~ 500 V
Full-load MPPT voltage range	110 V ~ 500V	160 V ~ 500 V	175 V ~ 500 V
Max. input current	10 A	10 A	12 A
Number of independent MPP inputs	1	1	1
Max. number of PV strings	1	1	1
OUTPUT (AC)			
Rated AC output power	1000 W	1500 W	2000 W
Max. AC output power	1100 W	1650 W	2200 W
Max. AC output current	5.5 A	8.3 A	11 A
Rated output voltage range	220 V / 230 V / 240 V ; 180 V ~ 270 V		
Rated grid frequency range	50 / 50 \pm 5 Hz, 60 / 60 \pm 5 Hz		
Power factor	1		
THD (rated output)	< 3%		
EFFICIENCY			
Max. efficiency	96%	97%	97%
European efficiency	95%	96%	96%
MPPT efficiency	99.9%		
PROTECTIONS			
DC input reverse polarity protection	Yes		
Input DC impedance monitoring	Yes		
Leakage protection	Yes		
AC short-circuit protection	Yes		
Mains power monitoring	Yes		
Output DC component detection	Yes		
GENERAL DATA			
Self-consumption (at night)	< 0.5 W		
Isolation type	Transformerless		
Display	2 x LED & LCD		
Communications	RS485 / Wi-Fi / Zigbee		
Cooling method	Natural cooling		
Noise	< 30 dB		
Operating temperature	$-25^{\circ}\text{C} \sim +60^{\circ}\text{C}$		
Relative humidity	0 ~ 95% non-condensing		
Altitude	2000 m		
IP rating	IP 65		
Installation environment	Outdoor or indoor		
Installation method	Wall mounting		
Dimensions (W x D x H) (mm)	330 x 145 x 350		
Packaged dimensions (W x D x H) (mm)	465 x 405 x 240		
Net weight (kg)	12.5		
Gross weight (kg)	15		

Disclaimer:

- These data in this document are tested under specified conditions. It may result in difference between actual results and these data due to some uncertain factors. The statement about this product is for reference only. It makes no representation or warranty.
- All specifications subject to change without notice.