Grid–connected PV Inverter

EA3KSI–D / EA3.68KSI
/ EA4KSI / EA4.6KSI / EA5KSI / EA6KSI

Features

Compact and Robust

- Unmatched power density with a small footprint
- Aluminum alloy die casting enclosure, permanently anti–rust
- IP 65, ensuring waterproof and dustproof during the 25–year service life
- Integrated streamlined case design with elegant appearance
- Light weight, only 11 kg for 5 kW inverter; dual–in–line wiring method, simplified one–person installation
- Industrial–grade high quality components, obtaining a 25–year design life

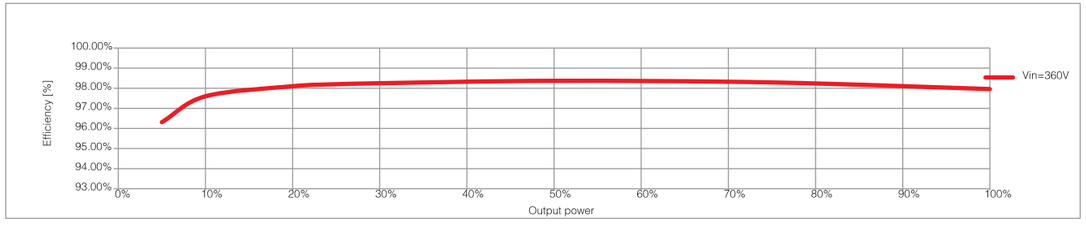
High Conversion Efficiency, High Overload Capacity, More Power Generation Benefit

- High conversion efficiency up to 98.4% (High efficiency version)
- Internal double boards design, without wiring terminal connection, low failure rate, ensuring long–term continuous power generation of the inverter
- Self–adaptive to the weak grid conservative mechanism, ride–through in harsh environment
- 600 V withstand voltage, 90 ~ 550 V wide MPPT range, supporting input over 30%

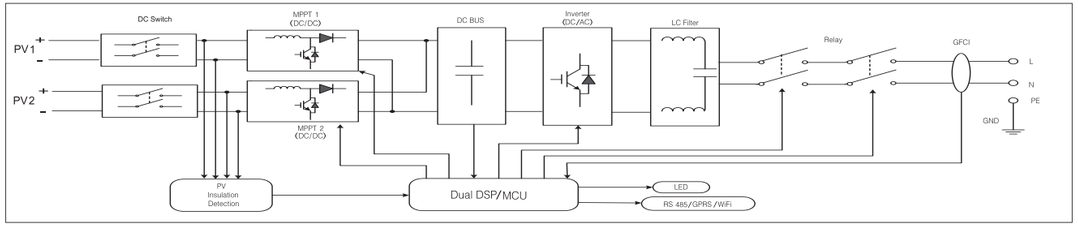
Easy Operation, Intelligent Monitoring, Running Cost Reduction

- Remote wireless transmission and cloud storage of power generation and operational data
- One–click APP configuration, real–time query via smart phone, convenient and efficient
- Support meter communication interface, more accurate power generation data, ensuring the profits
- Remote software upgrade, parameter setting and troubleshooting query, greatly reducing the cost of operation and maintenance
- Provided with the functions of grid remote power control, dry contact control, sound and light alarm

Efficiency Curve



Schematic Diagram



Technical Data

MODEL	EA3KSI–D	EA3.68KSI	EA4KSI	EA4.6KSI	EA5KSI	EA6KSI
INPUT						
Max. input power	3900 W	4800 W	5200 W	6000 W	6500 W	7800 W
Max. input voltage	600 V					
Start–up voltage	120 V					
MPPT voltage range	90 – 550 V					
Rated input voltage	360 V					
MPPT voltage range at full load	150 – 480 V	200 – 480 V	200 – 480 V	230 – 480 V	250 – 480 V	300 – 480 V
Max. input current	11 A × 2					
Max. short circuit current	12 A × 2					
Number of MPPTs	2					
OUTPUT						
Max. output power	3000 W	3680 W	4000 W	4600 W	4900 W (AUS) 5000 W (EUR)	6000 W
Max. output current	13 A	16 A	17.4 A	20 A	21.3 A (AUS) 21.8 A (EUR)	26.1 A
Rated grid voltage	Single phase 230 Vac					
Grid voltage range	180 – 280 Vac					
Rated grid frequency	50 / 60 Hz					
Grid frequency range	45 – 55 Hz / 55 – 65 Hz					
THD	< 3% (rated output power)					
DC component	< 0.5% × rated output current					
Power factor	> 0.99 (rated output power)					
Power factor adjustable	0.8 leading ~ 0.8 lagging					
EFFICIENCY						
Max. efficiency	97.8%					
European efficiency	97.3%					
OTHERS						
Protection	Islanding protection, Output short–circuit protection, Leakage current protection, DC reverse polarity protection, DC input impedance detection, DC switch					
Operating temperature	–25℃ ~ +60℃ (> 45℃ downgrading)					
Relative humidity	0% ~ 100%					
Altitude	4000 m (> 2000 m downgrading)					
IP rating	IP 65					
Cooling	Natural cooling					
Display	LED indicators					
Self–consumption at night	< 0.5 W					
Communication	RS485 * 2, Wi–Fi / Ethernet, GPRS					
Noise	< 40 dB					
Installation method	Wall–mounted					
DC wiring terminal	MC4					
AC wiring terminal	Plug and play					
Certification standards	IEC/EN62109–1, IEC62109–2, AS / NZS 4777.2 : 2015, VDE 0126–1–1, VDE–AR–N–4105, VDE V 0124–100 (GE), ENEL 2010 Ed.2.1, CEI 0–21 (ITA), G83, G59 (UK), EN50438 (NLD)					
Dimensions (W × D × H) (mm)	370 × 126.5 × 420					
Packaged dimensions (W × D × H) (mm)	440 × 205 × 490					
Net weight (kg)	10.9					
Gross weight (kg)	12.5					

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 are subject to change without notice.