

Grid-Connected PV Inverter

EA2KSI / EA2.5KSI / EA3KSI



Features

Compact and Robust

- 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

Technical Data

| MODEL | EA2KSI | EA2.5KSI | EA3KSI |
|--------------------------------------|---|-------------|-------------|
| INPUT | | | |
| Max. input power | 2600 W | 3250 W | 3900 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 | 200 – 480 V | 250 – 480 V | 300 – 480 V |
| Max. input current | 11 A | | |
| Max. short circuit current | 12 A | | |
| Number of MPPTs | 1 | | |
| OUTPUT | | | |
| Max. output power | 2000 W | 2500 W | 3000 W |
| Max. output current | 8.7 A | 10.9 A | 13 A |
| Rated grid-connected voltage | Single phase 230 Vac | | |
| Grid-connected voltage range | 180 – 280 Vac | | |
| Rated grid-connected frequency | 50 / 60 Hz | | |
| Grid-connected 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) | | |
| Adjustable range of power factor | 0.8 leading ~ 0.8 lagging | | |
| EFFICIENCY | | | |
| Max. conversion 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°C ~ +60°C (> 45°C 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 | | |
| 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) | 308 × 116.5 × 353 | | |
| Packaged dimensions (W × D × H) (mm) | 375 × 205 × 455 | | |
| Net weight (kg) | 8.0 | | |
| Gross weight (kg) | 9.5 | | |

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 subject to change without notice.