

Grid-Connected PV Inverter AR2KSI / AR2.5KSI / AR3KSI



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	AR2KSI	AR2.5KSI	AR3KSI
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.