

Grid-Connected PV Inverter



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 97.8%
- 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
- 10% output overload capacity, increasing power generation benefits by more than 20%
- 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	MGEA2KSI	MGEA2.5KSI	MGEA3KSI	MGEA3.68KSI	MGEA4KSI	MGEA4.6KSI	MGEA5KSI	MGEA6KSI
INPUT								
Max. input power	2600 W	3250 W	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	200 ~ 480 V	250 ~ 480 V	300 ~ 480 V	200 ~ 480 V	200 ~ 480 V	230 ~ 480 V	250 ~ 480 V	300 ~ 480 V
Max. input current	11 A			11 A × 2				
Max. short circuit current	12 A			12 A × 2				
Number of MPPTs	1			2				
OUTPUT								
Rated output power	2000 W	2500 W	3000 W	3680 W	4000 W	4600 W	4900 W (AUS) 5000 W (EUR)	6000 W
Max. output power	2000 W	2500 W	3000 W	3680 W	4000 W	4600 W	4900 W (AUS) 5000 W (EUR)	6000 W
Max. output current	8.7 A	10.9 A	13.0 A	16.0 A	17.4 A	20.0 A	21.3 A	26.1 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%							
PROTECTIONS								
Islanding protection	Available							
Output short-circuit protection	Available							
Leakage current protection	Available							
DC reverse polarity protection	Available							
DC input impedance monitoring	Available							
DC switch	Available							
OTHERS								
Dimensions (W × D × H) (mm)	308 × 116.5 × 353			370 × 126.5 × 420				
Weight	< 9 kg			< 11.5 kg				
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)							

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.