

Single-Phase Residential Off-Grid Inverter



OG SERIES

5kW / 6kW



Intelligent Operation and Maintenance

- Built-in WiFi enables easy remote monitoring
- Removable dust filter for quick replacement



Assured Reliability

- Seamless switching ensures uninterrupted power supply (< 4 ms)
- Super-backup without battery in off-grid situation



High Performance

- Maximum PV input current up to 28A, easily compatible with high-power modules
- Max. 120A charge/ 140A discharge current, 20% more than industry average
- Up to 200% AC output overloading capability for 5s



Flexible Adaptability

- Smart load management via independent generator port
- Support up to 3 units in parallel and more planned in the future
- Compatibility with multiple battery types and broader applicability

PV INPUT		
Max. recommended PV array power	6 kWp	7.2 kWp
Max. PV input voltage ^①	450 d.c. V	
Rated PV input voltage	360 d.c. V	
Operating voltage range	90 - 450 d.c. V	
Start-up voltage	95 d.c. V	
No. of MPP trackers / strings per MPP tracker	1 / 1	
Max. input current per MPPT	20 d.c. A	28 d.c. A
AC INPUT		
Max. input apparent power	9.2 kVA	
Max. input current	40.0 a.c. A@230 a.c. V	
Rated AC input voltage	230 a.c. V	
Rated AC input frequency	50 Hz / 60 Hz	
Switchover time	< 4ms (typical)	
BATTERY		
Battery type	Lithium / Lead - acid	
Rated battery voltage	48 d.c. V	
Battery voltage range	40 - 60 d.c. V	
Max. charge / discharge current	100 / 120 d.c. A	120 / 140 d.c. A
AC OUTPUT		
Rated output power	5 kW	6 kW
Rated output current	21.8 a.c. A@230 a.c. V	26.1 a.c. A@230 a.c. V
Max. output apparent power	5 kVA	6 kVA
Max. output continuous current	21.8 a.c. A@230 a.c. V	26.1 a.c. A@230 a.c. V
Peak output power	10 kW 2 times of rated power, 5s	12 kW 2 times of rated power, 5s
Rated AC output voltage	230 a.c. V	
Rated AC output frequency	50 Hz / 60 Hz	
EFFICIENCY		
Max. efficiency	96.5%	
ENVIRONMENT LIMIT		
Ingress protection	IP20	
Operating temperature range	-10 - 55°C	
Max. operating altitude	3000 m	
Relative humidity	5 - 90% RH (non-condensing)	
Overvoltage category	Mains: III , Battery: II , PV: II	
GENERAL		
Dimensions (W x H x D)	320 x 395 x 115 mm	
Net weight	9.6 kg	
Cooling concept	Smart air cooling	
Communication interfaces	CAN, WiFi, RS485	
Display	LCD	
Topology	Non-isolated	
Certifications	CE	

① The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter