

Single-Phase Residential Off-Grid Inverter



SOLAIRE OG SERIES

5kW / 6kW



Intelligent Operation and Maintenance

- Intelligent fan speed control reduces noise*
- Smart reminder for dust filter replacement (or cleaning)*
- With startup wizard, self-diagnosis, and OTA remote upgrades, enjoy fast installation and effortless maintenance*
- Built-in WiFi enables easy remote monitoring



High Performance

- Low-noise operation, less than 50dB, for a quiet and undisturbed environment
- Maximum PV input current up to 28A, easily compatible with high-power modules
- Maximum charge and discharge current up to 120A, meeting high-power application needs



Assured Reliability

- 0ms seamless switching ensures uninterrupted power supply*
- Up to 200% EPS overload for 5s



Flexible Adaptability

- Independent generator and smart load ports for intelligent power distribution
- Supports up to 12 units in parallel for easy system capacity expansion*
- Supports single-phase and three-phase group connection for versatile application scenarios
- Equipped with a BMS interface for compatibility with more battery types and broader applicability
- Personalize your energy storage inverter with a variety of stylish colors to match any setting or preference

Max. recommended PV array power	6 kWp	7.5 kWp
Max. PV input voltage ^①	500 V	
Rated PV input voltage	360 V	
Operating voltage range	90 - 450 V	
Start-up voltage	95 V	
No. of MPP trackers / strings per MPP tracker	1	1
Max. input current per MPPT	20 A	28 A
Max. input short circuit current per MPPT	35 A	
AC INPUT & OUTPUT		
Rated output power	5 kW	6 kW
Rated output current	21.8 A	26.1 A
Max. output apparent power	5 kVA	6 kVA
Max. output current	21.8 A	26.1 A
Peak output power	2 times of rated power, 5s	2 times of rated power, 5s
Switchover time	0 ms	
Rated AC output voltage	230 V	
Rated AC output frequency	50 Hz / 60 Hz	
Max. input apparent power	9.2 kVA	
Max. input current	40.0 A	
Rated AC input voltage	230 V	
AC input voltage range	90 ~ 280 V	
Rated AC input frequency	50 Hz / 60 Hz	
Adjustable power factor range	~ 1 (0.8 lagging to 0.8 leading)	
THDi (rated power)	< 3%	
BATTERY		
Battery type	Lithium / Lead - acid	
No. of battery ports	1	
Battery voltage range	40 - 60 V	
Max. charge / discharge current	100 A	120 A
EFFICIENCY		
Max. efficiency	95%	
ENVIRONMENT LIMIT		
Ingress protection	IP20	
Operating temperature range	-10 ~ 50°C (derating above +45)	
Max. operating altitude	3000 m	
Relative humidity	4 ~ 100% RH (Condensing)	
Overvoltage category	Mains: III, Battery: II, PV: II	
GENERAL		
Dimensions (W × H × D)	415 × 320 × 115 mm	
Net weight	11kg	
Cooling concept	Smart air cooling	
Communication interfaces	CAN, WiFi, DI/DO	
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

② The AC frequency range may vary from different country codes