

YINERGY PRODUCT

RESIDENTIAL



OG SERIES



High Compatibility

Dual MPPT inputs with 27A + 27A and up to 15,000W total PV input. 60-450VDC MPPT range and 500VDC max. PV open-circuit voltage.



High Reliability

24kVA surge power and pure sine wave AC output support demanding household loads. CAN/RS485 BMS communication helps ensure stable lithium battery integration.



More Convenient

High-frequency design with dual AC output, optional WiFi monitoring, and batteryless operation.



Cost-effective

Solar and grid can supply loads at the same time, with feed-in-to-grid support. Battery-mode efficiency up to 94%, helping improve overall system utilization.

Off Grid Solar Inverter

Dual Output | Grid Feeding(optional)

12kW



Model	OG7-1P12K-LV
Rated Capacity	12 kVA / 12 kW
PV Input / Charger	
Solar Charger Type	MPPT
Max PV Input Current / Power	Single PV: 27A / 9000W Dual PV: 27A + 27A / 15000W total
MPPT Operating Voltage	60 - 450 VDC
PV Start-up Voltage	80 VDC
Max PV Open Circuit Voltage	500 VDC
Max PV Charge Current	160 A
Max AC Charge Current	160 A
Max Charge Current (PV+AC)	160 A
Battery Specifications	
Battery Type	Lithium / Lead-acid
Nominal Battery Voltage	48 VDC
AC Input	
Rated Input Voltage	220 / 230 / 240 VAC; L + N + PE
Voltage Range	90 - 280 VAC (APP/GEN mode) 170 - 264 VAC (UPS mode)
Frequency	50 / 60 Hz (Auto Adaptive)
Load Output Port Data	
Rated Capacity	12 kVA / 12 kW
AC Output 1 Max Current	70 A
AC Output 2 Max Current	40 A
Surge Power	24 kVA
Output Voltage	220 / 230 / 240 VAC
Power Factor	1
Frequency	50 / 60 Hz +/-0.1%
Switch Time	10 ms (APP/UPS mode) 20 ms (GEN mode)
Waveform	Pure Sine Wave
Overload Capacity	1 min @ 102% - 125% load 10 s @ 125% - 200% load
Max Efficiency (Battery Mode)	94% @ 48V
Maximum Load Capacity	
Only Battery	10000 W @ 50V
Battery + PV	12000 W
Bypass Current	70 A @ 25°C
General Data	
HMI	LCD
Communication Interface	RS232 / RS485 / CAN
Monitoring	WiFi (Optional)
Ingress Protection	IP21
Operating Temperature	-10°C - 60°C
Storage Temperature	-15°C - 60°C
Relative Humidity	5% - 95% (Non-condensing)
Max Operating Altitude	4000 m (Derating above 2000 m)