

YINERGY PRODUCT

RESIDENTIAL



OG SERIES



High Compatibility

33% more surge power has better protection function for special application scenarios such as refrigerator, air conditioner and water pump.

60 ~ 450VDC, Wider range, More power generation.
Start earlier, stop later.



High Reliability

Enhanced safety with Built-in Transformer Isolation, provides added protection for users.

Built-in Powerful Optimizer effectively drives heavy home loads, ensuring reliable performance for demanding appliances.
(Support 300% Surge Power)(Max Value)



More Convenient

27A Maximum, PV current better for 210 panels.

120A Maximum Charging Current, faster charging.



Cost-effective

38% increased rated power for PV, providing additional energy for battery charging while 100% full-load capacity.

PV efficiency up to 96.5%, ensures maximum energy conversion and enhances overall system performance.

Off Grid Solar Inverter

Dual Output

6.5kW



Model	OG2-1P6K5-DT
Rated Capacity	8120 VA / 6500 W
PV Input	
PV Maximum Input Power	9000 W
Max. PV Open Circuit Voltage	500 VDC
MPPT Range Operating Voltage	60 ~ 450 VDC
Max. Solar Input Current	27 A
Battery Specifications	
Battery Type	Lithium / Lead Acid / AGM / Gel
Nominal Battery Voltage	48 V (4*12 V)
AC Input	
Nominal Voltage	208 / 220 / 230 / 240; L + N + PE
Voltage Range	170 ~ 280 ±3 (UPS mode); 90 ~ 280 ±3 (Appliance mode)
Frequency	50 / 60 Hz (Auto Adaptive)
Load Output Port Data	
Rated Capacity	8120 VA / 6500 W
Second Output Capacity	4600 VA / 4600 W
Surge Power	16000 VA
Parallel	/
Waveform	Pure Sine Wave
Load Output Nominal Voltage	208 / 220 / 230 / 240 VAC
Load Output Voltage Range	90 ~ 280 VAC
Load Output Nominal Frequency	50 / 60 Hz
Load Output Frequency Range	49 ~ 51 Hz ±0.1% / 59 ~ 61 Hz ±0.1%
Transfer Time	10 ms UPS mode <15 ms Appliance mode
Peak Efficiency (PV to INV)	96.50%
Peak Efficiency (Battery to INV)	93.50%
Overload Protection	10min@102%< Load ≤120% 1min@120%< Load ≤150% 10s@150%< Load ≤200% 5s@Load >200%
Admissible Power Factor	-0.8~+0.8
Charger Specifications (Solar Charger & AC Charger)	
Charging Voltage	FV MODE: 54 V Settable: 53.2~55.6 V CV MODE: 56.4 V Settable: 56~58 V
Battery Over Voltage	61V
Charging Current	2 ~ 120 A
Max.AC Charge Current	120 A
Max PV Charge Current	120 A
Max. Charge Current (PV+AC)	120 A
Physical	
Built-in Transfer	Yes
Built-in Power Booster	Yes
Dimensions, D × W × H (mm)	124 × 338 × 513.4 mm
Net Weight (Kg)	12 kg
Communication Interface	RS485 / RS232 / USB / Dry Contact
Standard Compliance	
Safety Regulation	EN 62109-1:2010, EN 62109-2:2011, IEC 61683:1999
Environment	
Ingress Protection	IP21
Operating Temperature Range	-10 °C ~ 50 °C
Storage Temperature	-15 °C ~ 60 °C
Humidity	5% ~ 95% (Non-condensing)