

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.

40 ~ 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

100A Maximum Charging Current, faster charging.



Cost-effective

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

Peak efficiency up to 95%, ensures maximum energy conversion and enhances overall system performance.

Off Grid Solar Inverter

Dual Output | Grid Feeding(optional)

3.6kW



Model	OG-1P3K6-DT
Rated Capacity	4500 VA / 3600 W
PV Input	
PV Maximum Input Power	6500 W
Max. PV Open Circuit Voltage	500 VDC
MPPT Range Operating Voltage	40 ~ 450 VDC
Max. Solar Input Current	18 A
Battery Specifications	
Battery Type	Lithium / Lead Acid / AGM / Gel
Nominal Battery Voltage	24 V (2*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	4500 VA / 3600 W
Second Output Capacity	2300 VA / 2300 W
Surge Power	12000 VA
Parallel	/
Waveform	Pure Sine Wave
Load Output Nominal Voltage	208 / 220 / 230 / 240 VAC
Load Output Voltage Range	195 ~ 253 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)	95.00%
Peak Efficiency (Battery to INV)	93.00%
Overload Protection	1min@102%< Load ≤110% 10s@110%< Load ≤130% 3s@130%< Load ≤150% 200ms@Load >150%
Admissible Power Factor	-0.8~+0.8
Charger Specifications (Solar Charger & AC Charger)	
FV MODE: 27 V	
settable: 26.6~27.8 V	
CV MODE: 28.2 V	
settable: 28~29 V	
Battery Over Voltage	30.5 V
Charging Current	2 ~ 100 A
Max.AC Charge Current	100 A
Max PV Charge Current	100 A
Max. Charge Current (PV+AC)	100 A
Physical	
Built-in Transfer	Yes
Built-in Power Booster	Yes
Dimensions, D × W × H (mm)	117 × 283 × 423 mm
Net Weight (Kg)	7 kg
Communication Interface	RS485 / RS232 / USB / Dry Contact
Standard Compliance	
Safety Regulation	EN 62109-1:2010, EN 62109-2:2011, IEC 61683:1999
Environment	
IP21	
-10 °C ~ 50 °C	
-15 °C ~ 60 °C	
5% ~ 95% (Non-condensing)	