



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)



More Convenient

28A I_{max}.PV current better for 210 panels.
160A 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 97%, ensures maximum energy conversion and enhances overall system performance.

Hybrid Solar Inverter

Dual Output | Grid Feeding

5kW



Model	OG-1P5K-DT-24
Rated Capacity	6250 VA / 5000 W
PV Input	
PV Maximum Input Power	9000 W
Max. PV Open Circuit Voltage	500 VDC
MPPT Range Operating Voltage	40 ~ 450 VDC
Max. Solar Input Current	28 A
Battery Specifications	
Battery Type	Lithium and Lead-acid
Nominal Battery voltage	24 V (2*12 V)
AC Input	
Nominal voltage	208 / 220 / 230; L + N + PE
Voltage Range	90 ~ 280 ±3 (normal mode); 170 ~ 280 ±3 (UPS mode)
Frequency	50 / 60 Hz (Auto Adaptive)
Load Output Port Data	
Rated Capacity	6250 VA / 5000 W
Second Output Capacity	4150 VA / 4150 W
Surge Power	15000 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 10 ms Appliance mode
Peak Efficiency (PV to INV)	96.00%
Peak Efficiency (Battery to INV)	92.50%
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)	
Charging Voltage	FV MODE: 27 V Settable: 26.6~27.8 V CV MODE: 28.2 V Settable: 28~29 V
Battery Over Voltage	30.5V
Charging Current	2 ~ 160 A
Max.AC Charge Current	160 A
Max PV Charge Current	160 A
Max. Charge Current (PV+AC)	160 A
Physical	
Built-in Transfer	Yes
Built-in Power Booster	Yes
Dimensions (D × W × H)	394 × 326 × 110 mm
Net Weight	10 kg
Communication Interface	RS485 / RS232 / USB / Dry Connect
Environment	
Ingress Protection	IP21
Operating Temperature Range	-10 °C ~ 50 °C
Storage Temperature	-15 °C ~ 60 °C
Humidity	5% ~ 95% (Non-condensing)