

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.

120A Maximum charging Current, faster charging.



Good Economy

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.

Off Grid Solar Inverter

Dual Output

- 1.2kW
- 3.6kW
- 5kW
- 6.5kW



	OG-1P1K2-T	OG-1P3K6-DT	OG-1P5K-PDT	OG-1P6K5-DT
Rated Capacity	1500 VA / 1200 W	4500 VA / 3600 W	6250 VA / 5000 W	8120 VA / 6500 W
PV Input				
PV Maximum Input Power	1200 W	6500 W	6500 W	9000 W
Max. PV Open Circuit Voltage	125 VDC	500 VDC	500 VDC	500 VDC
MPPT Range Operating Voltage	20 ~ 100 VDC	40 ~ 450 VDC	120 ~ 450 VDC	60 ~ 450 VDC
Max. Solar Input Current	14 A	18 A	18 A	28 A
Battery Specifications				
Battery Type	Lithium and Lead-acid			
Nominal Battery voltage	12 V (1*12 V)	24 V (2*12 V)	48 V (4*12 V)	
AC Input				
Nominal voltage	220 / 230 / 240; 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	1500 VA / 1200 W	4500 VA / 3600 W	6250 VA / 5000 W	8120 VA / 6500 W
Second Output Capacity	1380 VA / 1200 W	2300 VA / 2300 W	4150 VA / 4150 W	4150 VA / 4150 W
Surge Power	3600 VA	11000 VA	15000 VA	16500 VA
Parallel	/	/	9 Unit	/
Waveform	Pure Sine Wave			
Load Output Nominal Voltage	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 ±0.1%			
Transfer Time	10 ms UPS mode 10 ms Appliance mode			
Peak Efficiency (PV to INV)	94.00%	96.00%	96.50%	97.00%
Peak Efficiency (Battery to INV)	90.00%	92.00%	93.50%	94.50%
Overload Protection	10min@102%< Load ≤120% 1min@120%< Load ≤150% 10s@150%< Load ≤200% 200ms@Load >200%	1min@102%< Load ≤110% 10s@110%< Load ≤130% 3s@130%< Load ≤150% 200ms@Load >150%	1min@102%< Load ≤120% 10s@110%< Load ≤130% 3s@130%< Load ≤150% 200ms@Load >150%	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: 13.5 V settable: 12 ~ 14.9 V CV MODE: 14.1 V settable: 12 ~ 15 V	FV MODE: 27 V settable: 26.6 ~ 27.8 V CV MODE: 28.2 V settable: 28 ~ 29 V	FV MODE: 54 V Settable: 53.2 ~ 55.6 V CV MODE: 56.4 V Settable: 56 ~ 58 V	
Battery Over Voltage	15 V	30.5 V	61V	
Charging Current	2 ~ 60 A	2 ~ 100 A	2 ~ 80 A	2 ~ 120 A
Max.AC Charge Current	60 A	100 A	80 A	120 A
Max PV Charge Current	60 A	100 A	80 A	120 A
Max. Charge Current (PV+AC)	60 A	100 A	80 A	120 A
Physical				
Built-in Transfer	Yes	Yes	Yes	Yes
Built-in Power Booster	Yes	Yes	Yes	Yes
Dimensions, D × W × H (mm)	91 × 236 × 347	122 × 283 × 439.4	129 × 338 × 529.6	129 × 338 × 529.6
Net Weight (Kg)	4.5	8.2	12	13.6
Communication Interface	USB	USB / RS485 / dry connect	USB / RS485 / CAN / dry connect	USB / RS485 / dry connect
Environment				
Ingress Protection	IP21			
Operating Temperature Range	-10 °C ~ 50 °C			
Storage Temperature	-15 °C ~ 60 °C			
Humidity	5% ~ 95% (Non-condensing)			