

OG SERIES



High Compatibility

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

20~450VDC, 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

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 96.5%, ensures maximum energy conversion and enhances overall system performance.

Off Grid Solar Inverter

Dual Output | Grid Feeding(optional)

1.2kW

3.6kW

5kW

6.5kW



Model	OG-1P1K2-T	OG-1P3K6-DT	OG-1P5K-DT-24	OG-1P5K-PDT	OG-1P6K5-DT
Rated Capacity	1500 VA / 1200 W	4500 VA / 3600 W	6250 VA / 5000 W	6250 VA / 5000 W	8120 VA / 6500 W
	PV Input				
PV Maximum Input Power	1200 W	6500 W	9000 W	6500 W	9000 W
Max. PV Open Circuit Voltage	125 VDC	500 VDC	500 VDC	500 VDC	500 VDC
MPPT Range Operating Voltage	20 ~ 100 VDC	40 ~ 450 VDC	40 ~ 450 VDC	120 ~ 450 VDC	60 ~ 450 VDC
Max. Solar Input Current	14 A	18 A	27 A	28 A	28 A
	Battery Specifications				
Battery Type	Lithium / Lead Acid / AGM / Gel				
Nominal Battery voltage	12 V (1*12 V)	24 V (2*12 V)	24 V (2*12 V)	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	1500 VA / 1200 W	4500 VA / 3600 W	6250 VA / 5000 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	4150 VA / 4150 W
Surge Power	4000 VA	12000 VA	15000 VA	15000 VA	15000 VA
Parallel	/	/	/	9 Unit (1P & 3P)	9 Unit (1P & 3P)
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)	80.00%	95.00%	96.00%	/	96.50%
Peak Efficiency (Battery to INV)	92.50%	93.00%	93.00%	/	93.50%
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 ≤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: 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	30.5 V	61V	
Charging Current	2 ~ 60 A	2 ~ 100 A	2 ~ 160 A	2 ~ 80 A	2 ~ 120 A
Max.AC Charge Current	60 A	100 A	160 A	80 A	60 A
Max PV Charge Current	60 A	100 A	160 A	80 A	120 A
Max. Charge Current (PV+AC)	120 A	100 A	160 A	80 A	120 A
	Physical				
Built-in Transfer	Yes	Yes	Yes	Yes	Yes
Built-in Power Booster	Yes	Yes	Yes	Yes	Yes
Dimensions, D × W × H (mm)	91 × 236 × 347 mm	122 × 283 × 439.4 mm	110 × 326 × 394 mm	129 × 338 × 529.6 mm	129 × 338 × 529.6 mm
Net Weight (Kg)	4.5 kg	8.2 kg	10 kg	12 kg	12 kg
Communication Interface	RS485 / RS232	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)				