

Off-Grid Inverter

OG SERIES

Single Phase

1K2 | 3K6 | 5K | 6K5

High Compatibility

- 33% more surge power has better protection function for special application scenarios such as refrigerator, air conditioner and water pump.
- 60~450 VDC, 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.



Contact Information

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MODEL	OG-1P1K2-T / HI1-1P1K2-T	OG-1P3K6-DT / HI1-1P3K6-DT	OG-1P5K-PDT / HI1-1P5K-PDT	OG-1P6K5-DT / HI1-1P6K5-DT
Rated Capacity	1500VA / 1200W	5000VA / 3600W	6000VA / 5000W	9000VA / 6500W
PV Input				
PV Maximum Input Power	1200W	6500W	6500W	9000W
Max. PV Open Circuit Voltage	125VDC	500VDC	500VDC	500VDC
MPPT Range Operating Voltage	18~100VDC	40~450VDC	120~450VDC	60~450VDC
Max. Solar Input Current	14A	18A	18A	28A
Battery Specifications				
Battery Type	Lithium and Lead-acid			
Nominal Battery voltage	12V（1*12V）	24V（2*12V）	48V（4*12V）	
AC Input				
Nominal voltage	208 / 220 / 230 / 240; L + N + PE			
Voltage Range	90~280±3 (normal mode); 170~280±3 (UPS mode)			
Frequency	50 / 60Hz (Auto Adaptive)			
AC Output				
Rated Capacity	1500VA / 1200W	5000VA / 3600W	6000VA / 5000W	9000VA / 6500W
Second Output Capacity	1380VA / 1380W	2300VA / 2300W	4150VA / 4150W	4150VA / 4150W
Surege Power	3600VA	11000VA	15000VA	16500VA
Parallel	/	/	9 Unit (1P & 3P)	/
Waveform	Pure Sine Wave			
Nominal Voltage	208 / 220 / 230 / 240 VAC			
Feed-in Grid Voltage Range	195~253VAC			
Nominal Frequency	50 / 60Hz			
Feed-in Grid Frequency Range	49~51Hz±0.1% / 59~61±0.1%			
Transfer Time	Transfer Time 10ms UPS mode 10ms 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: 13.5V settable: 12-14.9V CV MODE: 14.1V settable: 12-15V	FV MODE: 27V settable: 26.6~27.8V CV MODE: 28.2V settable: 28~29V	FV MODE: 54V Settable: 53.2~55.6V CV MODE: 56.4V Settable: 56~58V	
Battery Over Voltage	15V	30.5V	61V	
Charging Current	2-60A	2~100A	2~80A	2~120A
Max.AC Charge Current	60A	100A	80A	120A
Max PV Charge Current	60A	100A	80A	120A
Max. Charge Current (PV+AC)	60A	100A	80A	120A
Physical				
Built-in Transfer	Yes			
Built-in Power Booster	Yes	Yes		
Dimensions, DxWxH (mm)	91*236*347	112*283*448.9	119*338*539.1	119*338*539.1
Net Weight (Kg)	3.2	8.2	12.5	13.56
Communication Interface	RS485 / RS232	RS485 / RS232 / USB / Dry Contact		
Environment				
Ingress Protection	IP21			
Operating Temperature Range	-10 ℃~ 50 ℃			
Storage Temperature	-15 ℃~ 60 ℃			
Humidity	5% ~ 95% (Non-condensing)			