

# OG SERIES IP65

## Off Grid Inverter

Single Phase



### High Performance

- 200% PV oversizing and up to 110% AC output.
- 200% peak EPS power for 60s.
- Max. 210A charging / discharging current.
- 80V low start-up voltage for longer operation.

3kW

5kW

6kW

8kW

10kW

12kW



### Assured Reliability

- Battery terminal temperature detection.
- IP65 protection degree.
- Type II SPD on AC&DC side.
- Optional AFCI protection.



### Smart Management

- Smart loads management.
- Single unit UPS-level switchover time < 4ms.



### Flexible Adaptability

- Max. 10pcs parallel for on-grid and off-grid. <sup>①</sup>
- Generator function for versatile operations.
- Max. 28A input per string, optimized for high-power solar panels.



Model	OGI-1P3K-LV	OGI-1P5K-LV	OGI-1P6K-LV	OGI-1P8K-LV	OGI-1P10K-LV <sup>①</sup>	OGI-1P12K-LV <sup>①</sup>
<b>PV Input</b>						
Max. PV Array Power	6000 W	10000 W	12000 W	16000 W	20000 W	24000 W
Max. PV Input Power	4800 W	8000 W	9600 W	12800 W	16000 W	19200 W
Max. PV Input Voltage	510 V					
Rated Voltage	360 V					
Start-up Voltage	80 V					
MPPT Range	90 V - 425 V					
Max input Current per MPPT	18 + 18 A			28 + 28 A		
Max. Short Circuit Current per MPPT	27 + 27 A			42 + 42 A		
No.of MPP Trackers/No.of String Per MPP Tracker	2/1+1			2/2+2		
<b>Battery Data</b>						
Battery Type	Lead acid / Lithium					
Rated Voltage	48V					
Voltage Range	40V-60V					
Max.Current	75 A	120 A	135 A	190 A	200 A	210 A
<b>AC Input &amp; Out (ON-GRID)</b>						
Rated Output Power	3000 W	5000 W	6000 W	8000 W	10000 W	12000 W
Max. Output Power	3300 VA	5500 VA	6600 VA	8800 VA	11000 VA	13200 VA
Max. Input Power	3300 VA	5500 VA	6600 VA	8800 VA	11000 VA	13200 VA
Grid Type	220/230Vac, L/N/PE, 50/45-55, 60/55-65Hz, 0.85Un-1.1Un					
Max. Output Current	14.3 A	24 A	28.7 A	38.3 A	43.5 A	52.2 A
Max. Input Current	15 A	31 A	35 A	44A	45.5A	54.6 A
Power Factor	~1(-0.8lagging...0.8leading)					
THDi	< 3%					
<b>Eps (Off-Grid) Output (With Battery)</b>						
Rated Output Power	3000 W	5000 W	6000 W	8000 W	10000 W	12000 W
Rated EPS output voltage, frequency	220 / 230 Vac, L / N / PE, 50 / 45 - 55, 60 / 55 - 65 Hz, 0.85					Un - 1.1 Un
Peak Power (off-grid)	1.5 times of rated power 30 min					
On/Off grid switching time	< 4 ms					
<b>Efficiency</b>						
Peak Efficiency	96.00%					
MPPT Efficiency	>99%					
<b>Interface</b>						
Communication Interface	LED + LCD / CAN, RS485, CT, NTC, WiFi					
Type of Cooling	Intelligent Air Cooling					
<b>General Data</b>						
Size(L*H*W)/mm	411×631×236 mm			411×631×238 mm		
Weight/kg	28.6 kg			30 kg		
Operating Temperature Range	-25 °C~ +60 °C (>45 °C derating)					
Storage temperature	-25°C ~ +70°C					
Permissible Ambient Humidity	5 ~ 95% (Non-condensing)					
Permissible Altitude	< 3000 m					
Ingress protection	IP65					
Noise	<45 dB					
Inverter Topology	Transformerless for PV side / HF for battery side					
Surge Protection Level	TYPE II(DC), TYPE II(AC)					
Type of Cooling	Natural Convection			Intelligent Redundant Fan-cooling		
Warranty	5 Years					
<b>Standards</b>						
Grid	NRS 097-2-1, IEC61727, IEC62116, PEA, MEA					
Safety	IEC62109-1/, IEC62109-2					
EMC	IEC61000-6-1, IEC61000-6-3					

① To be released on Q3 2025