



OG SERIES



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.



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

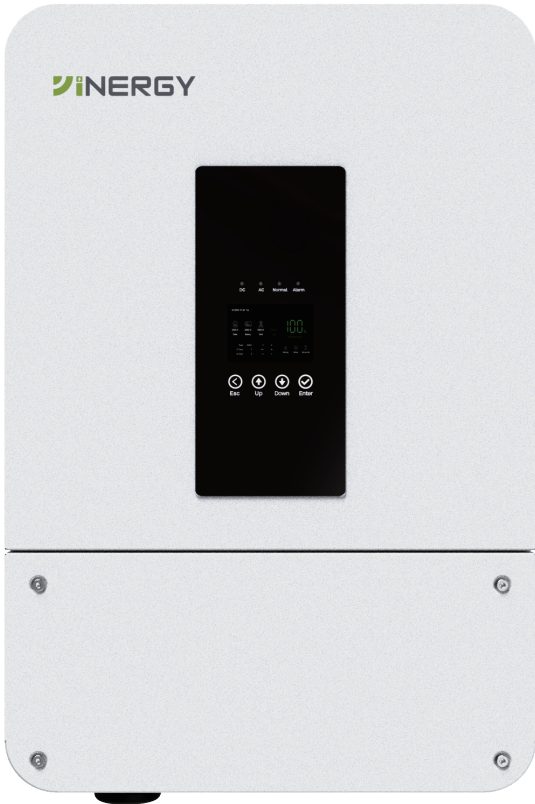
- Max. 10pcs parallel for on-grid and off-grid.
- Generator function for versatile operations.
- Max. 28A input per string, optimized for high-power solar panels.

Off Grid Solar Inverter

Single Phase

10kW

12kW



Model
Max. PV Array Power
Max. PV Input Power
Max. PV Input Voltage
Rated Voltage
Start-up Voltage
MPPT Range
Max input Current per MPPT
Max. Short Circuit Current per MPPT
No.of MPP Trackers/No.of String Per MPP Tracker
Battery Type
Rated Voltage
Voltage Range
Max.Current
Rated Output Power
Max. Output Power
Max. Input Power
Grid Type
Max. Output Current
Max. Input Current
Power Factor
THDi
Rated Output Power
Rated EPS output voltage, frequency
Peak Power (off-grid)
On/Off grid switching time
Peak Efficiency
MPPT Efficiency
Communication Interface
Type of Cooling
Size(L*H*W)/mm
Weight/kg
Operating Temperature Range
Storage temperature
Permissible Ambient Humidity
Permissible Altitude
Ingress protection
Noise
Inverter Topology
Surge Protection Level
Type of Cooling
Warranty
Grid
Safety
EMC

HI-1P10K-LV	HI-1P12K-LV
PV Input	
20000 W	24000 W
16000 W	19200 W
510 V	
360 V	
80 V	
90 V ~ 425 V	
28 + 28 A	
42 + 42 A	
2/2+2	
Battery Data	
Lead Acid / Lith-ion	
48V	
40V-60V	
200 A	210 A
AC Input & Out (ON-GRID)	
10000 W	12000 W
11000 VA	13200 VA
11000 VA	13200 VA
220/230Vac, L/N/PE, 50/45-55, 60/55-65Hz, 0.85Un-1.1Un	
43.5 A	52.2 A
45.5A	54.6 A
~1(-0.8lagging...0.8leading)	
< 3%	
Off-Grid	
10000 W	12000 W
230 V, 50 / 60 Hz	
2 times of rated power, 10s	
< 4 ms	
Efficiency	
97.60%	
>99%	
Interface	
RS485 / CAN	
Intelligent Air Cooling	
General Data	
411 × 631 × 238 mm	
30 kg	
-25 °C~ +60 °C (>45 °C derating)	
-25°C ~ +70°C	
5% ~ 95% (condensing)	
< 3000 m	
IP65	
<45 dB	
Transformerless for PV side / HF for battery side	
TYPE II(DC), TYPE III(AC)	
Intelligent Redundant Fan-cooling	
5 Years	
Standards	
NRS 097-2-1, IEC61727, IEC62116, PEA, MEA	
IEC62109-1/, IEC62109-2	
IEC61000-6-1, IEC61000-6-3	