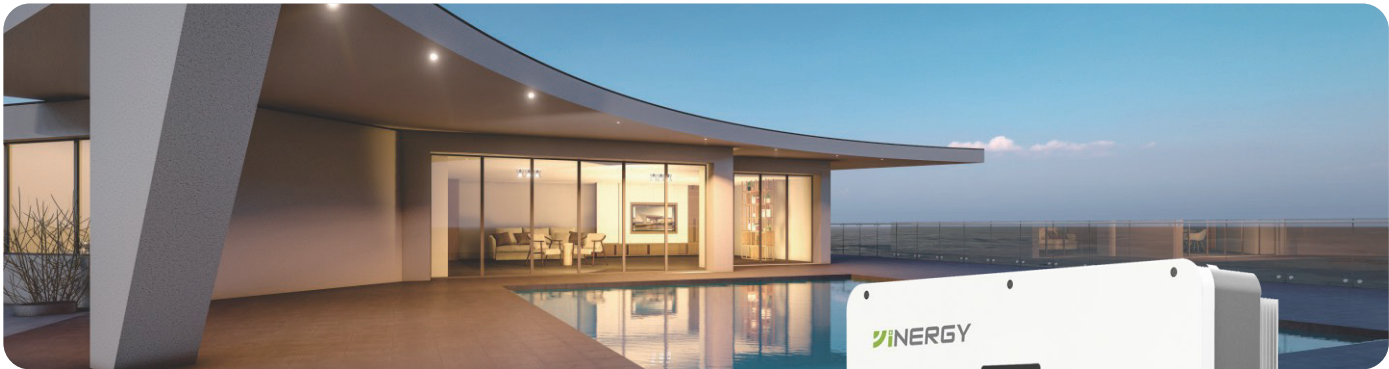


YINERGY PRODUCT | RESIDENTIAL



HI SERIES

Hybrid Inverter

Three Phase | 2MPPTs
5kW | 6kW | 8kW | 10kW | 12kW



High-Efficiency



Empowered by SiC, improved 0.3% average efficiency



100% three-phase unbalanced output



200% PV oversized and up to 110% AC overload output



Charging/discharging efficiency up 97.3%



Ultra-wide MPPT range of 180-950 V



Compatible with multiple battery brands

Safety

- IP66 meets multi-scenario protection
- AI powered AFCI protection (optional)
- <4 ms UPS-level switching time
- SPD-II protection on both DC / AC sides

Convenient

- Quick-connect terminals reduce 40% ports installation time
- Flexible expansion for Microgrid
- Easily connected to EV chargers and generators
- Up to 10 units in parallel for expansion^①

Economic

- 1kWh / 5days more by weak-light power generation
- >20% power equipped with optimizer
- >5 enegy management strategies to choose
- Less power consumption in idle mode

MODEL
Max. PV Array Power
Max. Input Power
Max. Input Voltage
Rated Input Voltage
Auxiliary power Start-up voltage
MPPT Operating Voltage Range
Max. Input Current per MPPT
Max. Short-circuit Current per MPPT
No. of MPP Trackers
No. of Strings per MPP Tracker
Battery Type
Battery Voltage Range
Max. Charge / Discharge Current
Rated Power
Communication Interface
Compatible Battery
Rated Output Power
Max. Output Apparent Power
Max. Input Apparent Power
Rated Grid Voltage
Rated Grid Frequency
Max. Output Current (per phase)
Max. Input Current (per phase)
Power Factor
Total Harmonic Distortion, THDi
Rated Output Power
Peak Output Apparent Power, 10s Switch Time
Rated Grid Voltage
Rated Grid Frequency
Max. Output Current (per phase)
Total Harmonic Distortion, THDv
Max. Efficiency
Euro Weighted Efficiency
Max. Battery Discharge Efficiency
Grid Regulation
Safety Regulation
EMC
Dimensions (W x H x D)
Weight
Installation
Operation Temperature
Operation Humidity
Protection Degree
Max. Operating Altitude
Cooling Method
Noise Emission
Topology
Display
Signal Input and Output
Standby Consumption

HI-3P5K-H-Y1	HI-3P6K-H-Y1	HI-3P8K-H-Y1	HI-3P10K-H-Y1	HI-3P12K-H-Y1
PV Input				
10000 W	12000 W	16000 W	20000 W	24000 W
7500 W	9000 W	12000 W	15000 W	18000 W
1000 V				
650 V				
110 V				
180 V~950 V				
16 A	16 A	16 A	16 A/ 28 A	16 A/28 A
20 A	20 A	20 A	20 A/ 35 A	20 A/35 A
2				
1	1	1	1 / 2	1 / 2
Battery Data				
Li-ion /Lead-acid				
170 V ~ 600V				
20 A/ 20 A	20 A/ 20 A	30 A/ 30 A	30 A/ 30 A	30 A/ 30 A
5000 W	6000 W	8000 W	10000 W	10000 W
CAN, RS485				
Sunwoda, Pylontech, ACSUHO, CESC				
AC Input and Output				
5000 W	6000 W	8000 W	10000 W	12000 W
5500 VA	6600 VA	8800 VA	11000 VA	12000 VA
12000 VA	12000 VA	16000 VA	16000 VA	16000 VA
3L / N / PE, 380 V / 400V				
50 Hz / 60 Hz				
8.3 A	10 A	13.3 A	16.7 A	17.4 A
18.2 A	18.2 A	24.2 A	24.2 A	24.2 A
~1 (Adjustable from 0.8 leading to 0.8 lagging)				
<3 %				
Backup Output (Off Grid)				
5000 W	6000 W	8000 W	10000 W	12000 W
10000 VA	12000 VA	16000 VA	16000 VA	16000 VA
<4 ms				
3L / N / PE, 380 V / 400V				
50 Hz / 60 Hz				
8.3 A	10 A	13.3 A	16.7 A	17.4 A
<3%				
Efficiency				
98.0%				
97.3%				
97.0%				
Standard Compliance				
EN 50549-1, VDE-AR-N 4105, NA/EEA-NE7-CH2020,G98,G99,PPDS:2022, NC RfG				
IEC/EN 62109-1, IEC/EN 62109-2				
IEC/EN 61000-6-1, IEC/EN 61000-6-3				
General Data				
520x490x195 mm				
28 kg				
Wall-mounted				
-25 °C~+60 °C(>45 °Cderating)				
0~95% RH, No Condensing				
IP66				
4000 m				
Natural Convection				
<40 dB				
Transformerless				
LEDindicator, APP				
DRM, 1×DI, 2×DO				
<15 W				

① To be released in Q2 2025