

YINERGY PRODUCT RESIDENTIAL



## HI3P SERIES Hybrid Inverter

3 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<sup>①</sup>

### 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

	HI-3P5K-H-Y1	HI-3P6K-H-Y1	HI-3P8K-H-Y1	HI-3P10K-H-Y1	HI-3P12K-H-Y1
<b>PV Input</b>					
Max. PV Array Power	10000 W	12000 W	16000 W	20000 W	24000 W
Max. Input Power	7500 W	9000 W	12000 W	15000 W	18000 W
Max. Input Voltage	1000 V				
Rated Input Voltage	650 V				
Auxiliary power Start-up voltage	110 V				
MPPT Operating Voltage Range	180 V-950 V				
Max. Input Current per MPPT	16 A	16 A	16 A	16 A/ 28 A	16 A/28 A
Max. Short-circuit Current per MPPT	20 A	20 A	20 A	20 A/ 35 A	20 A/35 A
No. of MPP Trackers	2				
No. of Strings per MPP Tracker	1	1	1	1 / 2	1 / 2
<b>Battery Data</b>					
Battery Type	Li-ion /Lead-acid				
Battery Voltage Range	170 V ~ 600V				
Max. Charge / Discharge Current	20 A/ 20 A	20 A/ 20 A	30 A/ 30 A	30 A/ 30 A	30 A/ 30 A
Rated Power	5000 W	6000 W	8000 W	10000 W	10000 W
Communication Interface	CAN, RS485				
Compatible Battery	Sunwoda, Pylontech, ACSUHO, CESC				
<b>AC Input and Output</b>					
Rated Output Power	5000 W	6000 W	8000 W	10000 W	12000 W
Max. Output Apparent Power	5500 VA	6600 VA	8800 VA	11000 VA	12000 VA
Max. Input Apparent Power	12000 VA	12000 VA	16000 VA	16000 VA	16000 VA
Rated Grid Voltage	3L / N / PE, 380 V / 400V				
Rated Grid Frequency	50 Hz / 60 Hz				
Max. Output Current (per phase)	8.3 A	10 A	13.3 A	16.7 A	17.4 A
Max. Input Current (per phase)	18.2 A	18.2 A	24.2 A	24.2 A	24.2 A
Power Factor	-1 (Adjustable from 0.8 leading to 0.8 lagging)				
Total Harmonic Distortion, THDi	<3 %				
<b>Backup Output (Off Grid)</b>					
Rated Output Power	5000 W	6000 W	8000 W	10000 W	12000 W
Peak Output Apparent Power, 10s Switch Time	10000 VA	12000 VA	16000 VA	16000 VA	16000 VA
Rated Grid Voltage	3L / N / PE, 380 V / 400V				
Rated Grid Frequency	50 Hz / 60 Hz				
Max. Output Current (per phase)	8.3 A	10 A	13.3 A	16.7 A	17.4 A
Total Harmonic Distortion, THDv	<3%				
<b>Efficiency</b>					
Max. Efficiency	98.0%				
Euro Weighted Efficiency	97.3%				
Max. Battery Discharge Efficiency	97.0%				
<b>Standard Compliance</b>					
Grid Regulation	EN 50549-1, VDE-AR-N 4105, NA/EEA-NE7-CH2020,G98,G99,PPDS:2022, NC RfG				
Safety Regulation	IEC/EN 62109-1, IEC/EN 62109-2				
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-3				
<b>General Data</b>					
Dimensions (W x H x D)	514x496x205 mm				
Weight	30 kg				
Installation	Wall-mounted				
Operation Temperature	-25 °C~+60 °C(>45 °Cderating)				
Operation Humidity	0-95% RH, No Condensing				
Protection Degree	IP66				
Max. Operating Altitude	4000 m				
Cooling Method	Natural Convection				
Noise Emission	<40 dB				
Topology	Transformerless				
Display	LEDindicator, APP				
Signal Input and Output	DRM, 1×DI, 2×DO				
Standby Consumption	<15 W				

① To be released in Q2 2025