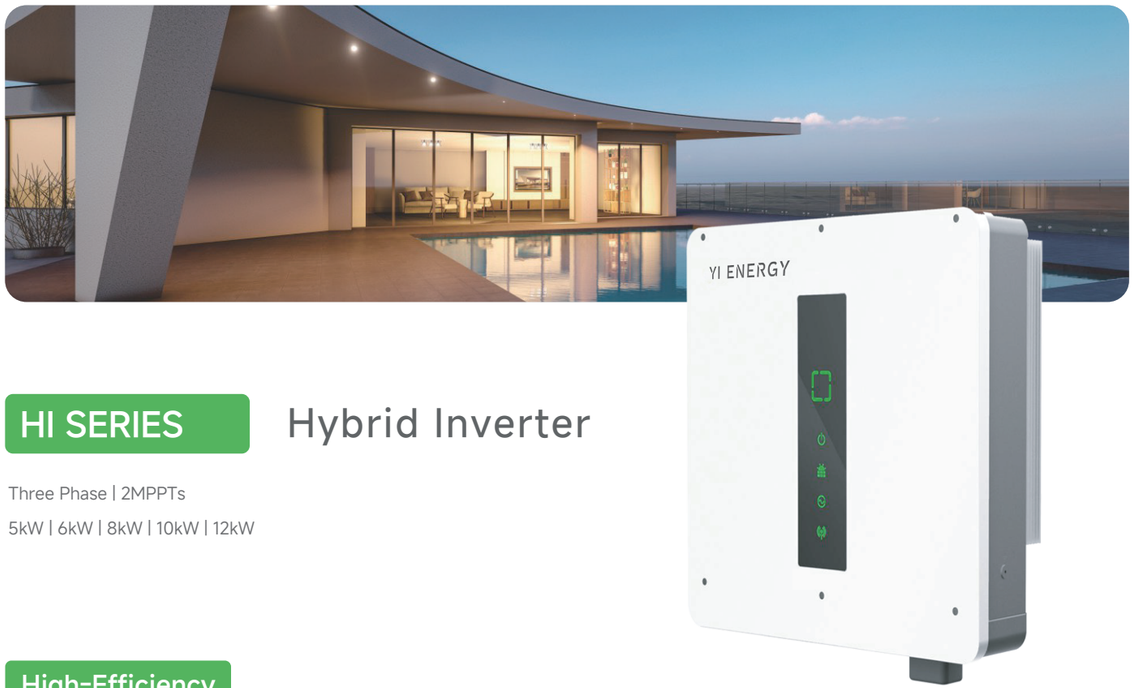

HI SERIES Hybrid Inverter

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 enegry management strategies to choose
- Less power consumption in idle mode

MODEL	HI-3P5K-H-Y1	HI-3P6K-H-Y1	HI-3P8K-H-Y1	HI-3P10K-H-Y1	HI-3P12K-H-Y1
PV Input					
Max. Input Power	7500 W	9000 W	12000 W	15000 W	15000 W
Max. Input Voltage	1000 V				
Rated Input Voltage	650 V				
Auxiliary power Start-up voltage	110 V				
MPPT Operating Voltage Range	200 V~950 V				
Max. Input Current per MPPT	14 A	14 A	14 A	14 A/ 28 A	14 A/28 A
Max. Short-circuit Current per MPPT	17 A	17 A	17 A	17 A/ 34 A	17 A/34 A
No. of MPP Trackers	2				
No. of Strings per MPP Tracker	1	1	1	1 / 2	1 / 2
Battery Data					
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				
AC Input and Output					
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 %				
Backup Output (Off Grid)					
Rated Output Power	5000 W	6000 W	8000 W	10000 W	12000 W
Peak Output Apparent Power，10s	10000 VA	12000 VA	16000 VA	16000 VA	16000 VA
Switch Time	<4 ms				
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%				
Efficiency					
Max. Efficiency	98.0%				
Euro Weighted Efficiency	97.3%				
Max. Battery Discharge Efficiency	97.0%				
Standard Compliance					
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				
General Data					
Dimensions (W x H x D)	520 x490 x195 mm				
Weight	28 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				

* Max. Input Current per MPPT supports up to 16A, tested in our TÜV Rheinland Authorized Testing Lab.