



**// HI3P SERIES**  
**Three Phase Hybrid Inverter**

High Voltage Battery | 2MPPTs  
5kW | 6kW | 8kW | 10kW | 12kW

### High-Efficiency

- Powered by SiC
- 100% 3-phase unbalanced Output
- Compatible with multiple battery brands

### Easy & Convenient

- 4 Intergrations:  
PV Inverter, PCS, EMS, EPS
- 4 Connections:  
Battery, EV Charger, Generator, Heat Pump

### Safe & Reliable

- IP66 Protection
- AI Powered AFCI Protection
- Less than 10ms Switching Time

	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				
Start-up Input Voltage	180 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	1		2		
No. of Strings per MPP Tracker	1	1	1	1 / 2	1 / 2
Battery Data					
Battery Type	Li-ion				
Battery Voltage Range	170 V ~ 600V				
Max. Charge / Discharge	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	CESC, Pylontech, Sunwoda				
AC Input and Output (On Grid)					
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	<10 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	97.0%				
Standard Compliance					
Grid Regulation	EN 50549-1, VDE-AR-N 4105, DIN VDE V0124 -100, TOR Generator Type A, NA/EEA-NE7-CH2020, AS/NZS 4777.2, G98,G99,CEI 0-21, PPDS Annex 4, NC fG PTPiREE				
Safety Regulation	IEC/EN 62109-1, IEC/EN 62109-2				
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-3				
General Data			Protection & Feature		
Dimensions (W x H x D)	520 x 490 x 195 mm		DC Reverse Polarity Protection	Yes	
Weight	33 kg		PV String Current Monitoring	Yes	
Installation	Wall-mounted		Insulation Resistor Monitoring	Yes	
Operation Temperature	-25 °C ~ +60 °C (> 45 °C Derating)		Residual Current Monitoring	Yes	
Operation Humidity	0~95% RH, No Condensing		Ant-islanding Protection	Yes	
Protection Degree	IP66		AC Overcurrent Protection	Yes	
Max. Operating Altitude	4000 m		AC Short-circuit Protection	Yes	
Cooling Method	Natural Convection AC Overvoltage		AC Overvoltage Protection	Yes	
Noise Emission	<40 dB		DC Circuit	Yes	
Topology	Transformerless		Surge protection Device, SPD	DC Type II / AC Type III	
Display	LED indicator, APP		Arc fault circuit interrupter,AFCI	Optional	
Signal Input and Output	DRM, 1×DI, 2×DO		Rapid shutdown,RSD	Optional	
Standby Consumption	<15 W				