



// HI1P SERIES **Single Phase** **Hybrid Inverter**

Low Voltage Battery | 2MPPTs
3kW | 3.68kW | 4kW | 4.6kW | 5kW | 6kW

High-Efficiency

- Powered by SiC
- Compatible with multiple battery brands
- 125A continuous charging & discharging

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-1P3K -L-Y1	HI-1P3.68K -L-Y1	HI-1P4K -L-Y1	HI-1P4.6K -L-Y1	HI-1P5K -L-Y1	HI-1P6K -L-Y1
PV Input						
Max. Input Power	4500 W	5520 W	6000 W	6900 W	7500 W	9000 W
Max. Input Voltage	600 V					
Rated Input Voltage	360 V					
Start-up Input Voltage	100 V					
MPPT Operating Voltage Range	90 V~560 V					
Max. Input Current	16 A					
Max. Short-circuit Current	20 A					
No. of MPP Trackers	1	2	2	2	2	2
No. of Strings per MPP Tracker	1					
Battery						
Battery Type	Li-ion /Lead-acid					
Battery Voltage Range	40 ~ 60 V					
Max. Charge / Discharge Current	75 A	90 A	95 A	100 A	105 A	125 A
Rated Power	3000 W	3680 W	4000 W	4600 W	5000 W	6000 W
Communication Interface	CAN, RS485					
Compatible Li-ion Battery Brand	CESC, Pylontech					
AC Input and Output (On Grid)						
Rated Output Power	3000 W	3680 W	4000 W	4600 W	5000 W	6000 W
Max. Output Apparent Power	3300 VA	3680 VA	4400 VA	5500 VA	5500 VA	6600 VA
Max. Input Apparent Power	6000 VA	7300 VA	8000 VA	9200 VA	10000 VA	12000 VA
Rated Grid Voltage	L / N / PE, 220 / 230 / 240 V					
Rated Grid Frequency	50 Hz / 60 Hz					
Max. Output Current	15 A	16.8 A	20 A	22.8 A	25 A	30 A
Max. Input Current	27.3 A	33.2 A	36.4 A	41.9 A	45.5 A	54.6 A
Power Factor	~1(Adjustable from 0.8 leading to 0.8 lagging)					
Total Harmonic Distortion, THDi	<3%					
EPS Output						
Rated Output Power	3000 W	3680 W	4000 W	4600 W	5000 W	6000 W
Peak Output Apparent Power, 10s	6000 VA	7300 VA	8000 VA	9200 VA	10000 VA	12000 VA
Switch Time	≤ 10 ms					
Rated Grid Voltage	L / N / PE, 220 / 230 / 240 V					
Rated Grid Frequency	50 Hz / 60 Hz					
Max. Output Current	15 A	16.8 A	20 A	22.8 A	25 A	30 A
Total Harmonic Distortion, THDv	< 3% (Linear load)					
Efficiency						
Max. Efficiency	98.0%					
Euro Weighted Efficiency	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%
Max. Battery Discharge Efficiency	96.6%	96.7%	96.8%	96.9%	97.0%	97.0%
Standard Compliance						
Grid Regulation	EN 50549-1, VDE -AR-N 4105, DIN VDEV0124 -100, AS/NZS 4777.2, G99, CEI0 -21					
Safety Regulation	IEC 62109 -1, IEC 62109 -2					
EMC	EN 61000-6-1, EN 61000-6-3					
General Data			Protection & Feature			
Dimensions (W x H x D)	475 x 447 x 180 mm		DC Reverse Polarity Protection		Yes	
Weight	24 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 Protection		Yes	
Noise Emission	<40 dB		DC Circuit		Yes	
Topology	Transformerless		Surge protection Device, SPD		DC Type II/ACType III	
Display	LED Indicators; Integrated Wi-Fi/4G+APP		Arc fault circuit interrupter,AFCI		Optional	
Signal Input and Output	DRM, 1×DI, 2×DO		Rapid shutdown,RSD		Optional	
Standby Consumption	<5 W					