

HI SERIES



High-Efficiency

Max charging / discharging current of 135A
200% PV oversized and up to 110% AC output
Empowered by SiC



Economic

>20% power equipped with optimize
90V low start-up voltage brings longer operation time



Safety

<4 ms UPS-level switching time
AI powered AFCI protection (optional)



Intelligent

Multiple battery brands & Lead acid battery compatible
Intelligent loads management (e.g. Heat pump, EV Charger)

Hybrid Inverter

1 Phase | 2MPPTS

3kW

3.68kW

4kW

4.6kW

5kW

6kW



	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					
Recommended Max. Input Power	4500 W	5500 W	6000 W	7000 W	7500 W	9000 W
Max. Input Voltage				550 V		
Rated Input Voltage				360 V		
Min. PV input Voltage / Start-up Input Voltage				90 V / 90 V		
MPPT Operating Voltage Range				90 V ~ 520 V		
Max. Input Current	20 A			20/20 A		
Max. Short-circuit Current	27 A			27/27 A		
No. of MPP Trackers	1			2		
No. of Strings per MPP Tracker			1			
	AC Output (On Grid)					
Rated Output Power	3000 W	3680 W	4000 W	4600 W	5000 W	6000 W
Rated Output Apparent Power	3000 VA	3680 VA	4000 VA	4600 VA	5000 VA	6000 VA
Max. Output Apparent Power	3300 VA	4048 VA	4400 VA	5060 VA	5500 VA	6600 VA
Rated Output Current	13 A	16 A	17.4 A	20 A	21.7 A	26.1 A
Max. Output Current	15 A	18.4 A	20 A	23 A	25 A	30 A
Power Factor			~1 (Adjustable from 0.8 leading t o 0.8 lagging)			
Total Harmonic Distortion, THDi			< 3%			
	AC Input (On Grid)					
Max. Input Apparent Power	6000 VA	7300 VA	8000 VA	9200 VA	10000 VA	10000 VA
Rated Grid Voltage			L / N / PE, 220 V / 230 V / 240 V			
Rated Grid Frequency			50 Hz / 60 Hz			
Max. Input Current	27.3 A	33.2 A	36.4 A	41.8 A	45.5 A	45.5 A
	Battery					
Battery Type			Li-ion			
Battery Voltage Range			40 V ~ 60 V			
Max. Charge / Discharge Current	75 A	75 A	100 A	100 A	125 A	135 A
Rated Power	3000 W	3680 W	4000 W	4600 W	5000 W	6000 W
Communication Interface			CAN, RS485			
	Backup Output (Off Grid)					
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	10000 VA
Switch Time			< 10 ms			
Rated Grid Voltage			L / N / PE, 220 V / 230 V / 240 V			
Rated Grid Frequency			50 Hz / 60 Hz			
Max. Output Current	13 A	16 A	17.4 A	20 A	21.7 A	26.1 A
Total Harmonic Distortion, THDv			< 3% (Linear load)			
	Efficiency					
Max. Efficiency			98.0%			
Euro Weighted Efficiency			97.1%			
Max. Battery Discharge Efficiency			94.7%			
	Protection					
DC Reverse Polarity Protection			Yes			
PV String Current Monitoring			Yes			
Insulation Resistor Monitoring			Yes			
Residual Current Monitoring			Yes			
Anti-islanding Protection			Yes			
AC Overcurrent Protection			Yes			
AC Short-circuit Protection			Yes			
AC Overvoltage Protection			Yes			
Overvoltage Category for All Ports			OV II for DC Port, OV III for mains			
DC Circuit			Yes			
Surge Protection Device, SPD			DC Type II / AC Type II			
Rapid Shutdown, RSD			Optional			
	General Data					
Dimensions (W x H x D Bare Machine)			461 x 482 x 208 mm			
Net Weight			27 kg			
Installation			Wall-mounted			
Operation Temperature			-25 °C ~ +60 °C (> 45 °C Derating)			
Operation Humidity			0 ~ 95% RH, No Condensing			
Protection Degree			IP66			
Max. Operating Altitude			4000 m (> 2000 m Derating)			
Cooling Method			Natural Convection			
Noise Emission			< 40 dB			
Topology			Transformerless & High frequency isolation for battery			
Display			LED Indicators; Integrated Wi-Fi / 4G + APP			
Signal Input and Output			DRM, 1 × DI, 3 × DO			
Standby Consumption			< 5 W			
	Standard					
Grid Regulation			AS / NZS 4777.2:2020			
Safety Regulation			IEC / EN 62109-1, IEC / EN 62109-2			
EMC			IEC / EN 61000-6-1, IEC / EN 61000-6-3			
Country of manufacture			China			

Note: All products are made in China.