

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	14.3 A	17.6 A	19.1 A	22 A	24 A	28.7 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, 230 V					
Rated Grid Frequency	50 Hz					
Max. Input Current	26.1 A	32 A	34.8 A	40 A	43.5 A	43.5 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					
	Back-up					
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
Switch Time	< 10 ms					
Rated Grid Voltage	L / N / PE, 230 V					
Rated Grid Frequency	50 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 x DI, 3 x 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.