

HI SERIES



High Performance

- 200% PV oversizing and up to 110% AC output
- 200% peak EPS power for 60s
- Max. 190A charging / discharging current
- 80V low start-up voltage for longer operation



Assured Reliability

- Battery terminal temperature detection
- IP65 protection degree
- Type II SPD on AC&DC side
- Optional AFCI protection



Smart Management

- Smart loads management
- Single unit UPS-level switchover time < 4ms



Flexible Adaptability

- Max. 10pcs parallel for on-grid and off-grid ①
- Generator function for versatile operations
- Max. 28A input per string, optimized for high-power solar panels.

Hybrid Inverter

Single Phase

- 3.6kW
- 5kW
- 6kW
- 8kW
- 10kW
- 12kW



Model
Max. PV Array Power (Wp)
Max. PV Input Power (Wp)
Max. PV Input Voltage (V)
Rated Voltage (V)
Start-up Voltage (V)
MPPT Range (V)
Max input Current per MPPT (A)
Max. Short Circuit Current per MPPT (A)
No.of MPP Trackers/No.of String Per MPP Tracker
Battery Type
Rated Voltage
Voltage Range
Max.Current
Rated Output Power (W)
Max Output Power (VA)
Max Input Power (VA)
Grid Type
Max Output Current
Max Input Current
Power Factor
THDi
Rated Output Power (W)
Rated EPS output voltage, frequency
Peak Power (off-grid) (W)
On/Off grid switching time
Peak Efficiency
MPPT Efficiency
Communication Interface
Type of Cooling
Size(L*H*W)/mm
Weight/kg
Operating Temperature Range (°C)
Storage temperature [°C]
Permissible Ambient Humidity
Permissible Altitude (m)
Ingress protection
Noise (dB)
Inverter Topology
Surge Protection Level
Type of Cooling
Warranty(Years)
Grid
Safety
EMC

HI-1P3.6K-LV	HI-1P5K-LV	HI-1P6K-LV	HI-1P8K-LV	HI-1P10K-LV ^②	HI-1P12K-LV ^②
PV Input					
7200	10000	12000	16000	20000	24000
5776	8000	9600	12800	16000	19000
510					
360					
80					
90-425					
18+18			28 + 28		
27+27			42 + 42		
2/1+1			2/2+2		
Battery Data					
Lead acid/Lithium					
48V					
40V-60V					
90	120	135	190	210	220
AC Input & Out (ON-GRID)					
3600	5000	6000	8000	10000	12000
3960	5500	6600	8800	11000	13200
3960	5500	6600	8800	11000	13200
220/230Vac, L/N/PE,50/45-55, 60/55-65Hz, 0.85Un-1.1Un					
17.3	24	28.7	38.3	47.8	57.3
18	25	30	40	50	60
~1(-0.8lagging...0.8leading)					
< 3%					
Eps (Off-Grid) Output (With Battery)					
3600	5000	6000	8000	10000	12000
230V,50/60Hz					
2 times of rated power, 60s;					
< 4 ms					
Efficiency					
97.60%					
>99%					
Interface					
LED + LCD / CAN, RS485, CT, NTC, WiFi					
Natural		Intelligent Air Cooling			
General Data					
411*631*236					
28.6				30	31
-25 to +60℃, >45℃ Derating					
'-25 ~ +70					
5 to 95% (condensing)					
< 3000					
IP65					
<45					
Transformerless for PV side / HF for battery side					
TYPE II(DC), TYPE II(AC)					
Natural		Intelligent Air Cooling			
5					
Standards					
NRS 097-2-1, IEC61727, IEC62116, PEA, MEA					
IEC62109-1/, IEC62109-2					
IEC61000-6-1, IEC61000-6-3					

①To be released on June 2025

②To be released on Q3 2025