



Single Phase Low Voltage

· IP66 Protection · 2 MPPTs



Efficiency

Advanced MPPT with up to 99.9% efficiency
Up to 22 A * 2 PV input current



Reliable

Output high-quality pure sine wave AC power
With IP65 protection degree



Safety

With software and hardware security protection
Multiple safety approvals



User-Friendly

Industrial design with a modern aesthetic look
Easy to install and simple to use



All-in-One

Up to 200 A charging current
Supports Li-ion battery BMS communication



Intelligent

Exclusive Li-ion battery BMS dual activation
Time-slot function to save cost with peak-valley

Hybrid Solar Inverter

Model	HI-1P3K-LV	HI-1P5K-LV	HI-1P6K-LV	HI-1P8K-LV	HI-1P10K-LV①	HI-1P12K-LV①
Max. PV Array Power	6000W	10000W	12000W	16000W	20000W	24000W
Max. PV Input Power	4800W	8000W	9600W	12800W	16000W	19200W
Max. PV Input Voltage	510V					
Rated Voltage	360V					
Start-up Voltage	80V					
MPPT Range	90V - 425V					
Max input Current per MPPT	18 + 18 A		28 + 28 A			
Max. Short Circuit Current per MPPT	27 + 27 A		42 + 42 A			
No.of MPP Trackers/No.of String Per MPP Tracker	2/1+1		2/2+2			
Battery Type	Lead acid / Lithium					
Rated Voltage	48V					
Voltage Range	40V-60V					
Max.Current	75A	120A	135A	190A	200A	210A
Rated Output Power	3000W	5000W	6000W	8000W	10000W	12000W
Max. Output Power	3300VA	5500VA	6600VA	8800VA	11000VA	13200VA
Max. Input Power	3300VA	5500VA	6600VA	8800VA	11000VA	13200VA
Grid Type	220/230Vac, L/N/PE, 50/45-55, 60/55-65Hz, 0.85Un-1.1Un					
Max. Output Current	14.3A	24A	28.7A	38.3A	43.5A	52.2A
Max. Input Current	15A	31A	35A	44A	45.5A	54.6A
Power Factor	~1(-0.8lagging...0.8leading)					
THDi	< 3%					
Rated Output Power	3000W	5000W	6000W	8000W	10000W	12000W
Rated EPS output voltage, frequency	220 / 230 Vac, L / N / PE, 50 / 45 - 55, 60 / 55 - 65 Hz, 0.85 Un - 1.1 Un					
Peak Power (off-grid)	1.5 times of rated power 30 min					
On/Off grid switching time	< 4ms					
Peak Efficiency	96.00%					
MPPT Efficiency	>99%					
Communication Interface	LED + LCD / CAN, RS485, CT, NTC, WIFI					
Type of Cooling	Intelligent Air Cooling					
Size(L*H*W)/mm	411 x 631 x 236 mm			411x631x238mm		
Weight/kg	28.6kg			30kg		
Operating Temperature Range	-25°C~+60°C(>45°C derating)					
Storage temperature	-25°C~+70°C					
Permissible Ambient Humidity	5~95% (Non-condensing)					
Permissible Altitude	<3000m					
Ingress protection	IP65					
Noise	<45 dB					
Inverter Topology	Transformerless for PV side / HF for battery side					
Surge Protection Level	TYPE II(DC), TYPE IIAC)					
Type of Cooling	Natural Convection			Intelligent Redundant Fan-cooling		
Warranty	5 Years					
Grid	NRS 097-2-1,IEC61727,IEC62116, PEA, MEA					
Safety	EC62109-1/, IEC62109-2					
EMC	IEC61000-6-1,IEC61000-6-3					