



HI5 SERIES Hybrid Inverter

Single Phase | 2MPPTs
4kW | 4.6kW | 5.5kW | 6kW

Efficiency

- Advanced MPPT with up to 99.9% efficiency
- Up to 16 A + 16 A PV input current

Reliable

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

Safety

- Comprehensive security from hardware to software
- Multiple safety approvals

User-Friendly

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

All-in-One

- Up to 100 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

MODEL	HI5-1P4K-LV	HI5-1P4K6-LV	HI5-1P5K5-LV	HI5-1P6K-LV
	Off-Grid Output			
Rated Output Power	4000 W	4600 W	5500 W	6000 W
Max. Peak Power	8000 VA	9200 VA	11000 VA	12000 VA
Rated Output Voltage	230Vac, single phase			
Load Capacity of Motors	3 HP	4 HP		
Output Frequency Range	50 Hz ± 0.3 Hz / 60 Hz ± 0.3 Hz			
Switching Time	10 ms (typical value)			
	On-Grid Output			
Rated Output Power	4000 W	4600 W	5500 W	6000 W
Max. Apparent Power	8000 VA	9200 VA	11000 VA	12000 VA
Rated. Output Current	17.4 A	20 A	24 A	26 A
Max. Output Current	19.1 A	22 A	26.4 A	28.6 A
THDI	< 3%			
Power Factor	0.8 leading to 0.8 lagging			
Rated Voltage	230 Vac, single phase			
Frequency	50 Hz / 60 Hz			
	Battery			
Battery Type	Lead-acid / Li-ion / User-defined			
Rated Battery Voltage	48 V (minimum start-up voltage 44 V)			
Battery Voltage Range	40 - 60 Vdc			
Max. PV Charging Current	100 A			
Max. Utility Charging Current	60 A			
Max. Generator Charging Current	60 A			
	PV Input			
Num. of MPPT	2			
Max. Input Power	3000 W + 3000 W	3500 W + 3500 W	4000 W + 4000 W	4500 W + 4500 W
Max. Input Current	16 A + 16 A			
Max. Short-circuit Current	27 A + 27 A			
Max. Open-circuit Voltage	500 Vdc + 500 Vdc			
MPPT Operating Voltage Range	120 ~ 450 Vdc			
	Utility / Generator Input			
Input Voltage Range	90 - 280 Vac			
Input Frequency Range	50 / 60 Hz			
Bypass Overload Current	40 A			
	Efficiency			
MPPT Tracking Efficiency	99.9%			
Max. Efficiency	97.5%			
	General			
Num. of Parallel	1 ~ 6 units			
Dimension	556 × 345 × 182 mm			
Weight	20 kg			
Protection Degree	IP65			
Operating Temperature Range	-25 ~ 60°C (>45°C derating)			
Humidity Range	0% ~ 100%			
Noise	< 60 dB			
Cooling Method	heatsink & intelligent air cooling			
Warranty	5 years			
	Communication			
Internal Interface	RS485 / CAN / USB / Dry contact			
External Module (optional)	Wi-Fi / GPRS			
	Certification			
On-grid Certification	EN50549-1, G99, NRS-097, VDE-ARN-4105, CEI021, UNE217002			
Safety	IEC62109-1, IEC62109-2			
EMC	EN61000-6-1, EN61000-6-3, FCC15 classB			
RoHS	Yes			