



## Hybrid Inverter

Single Phase HI-IP6K/8K/10K/12K-LV



### High Performance

- 200% PV oversizing and up to 110% AC output.
- 200% peak EPS power for 60s.
- Max. 210A 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.
- Generator function for versatile operations.
- Max. 28A input per string, optimized for high-power solar panels.

MODEL	HI-IP6K-LV	HI-IP8K-LV	HI-IP10K-LV	HI-IP12K-LV
<b>STANDARDS</b>				
Grid	NRS 097-2-1, IEC61727, IEC62116, PEA, MEA			
Safety	IEC62109-1/, IEC62109-2			
EMC	IEC61000-6-1, IEC61000-6-3			

#### Application scenarios



MODEL	HI-IP6K-LV	HI-IP8K-LV	HI-IP10K-LV	HI-IP12K-LV
<b>PV INPUT</b>				
Max. PV Array Power	12000W	16000W	20000W	24000W
Max. PV Input Power	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 + 18A			28 + 28A
Max. Short Circuit Current per MPPT	27 + 27A			42 + 42A
No.of MPPT/No.of String Per MPPT	2/1+1			2/2+2
<b>BATTERY DATA</b>				
Battery Type	Lead acid / Lithium			
Rated Voltage	48V			
Voltage Range	40V-60V			
Max.Current	135A	190A	200A	210A
<b>AC INPUT &amp; OUT (ON-GRID)</b>				
Rated Output Power	6000W	8000W	10000W	12000W
Max. Output Power	6600VA	8800VA	11000VA	13200VA
Max. Input Power	6600VA	8800VA	11000VA	13200VA
Grid Type	220/230Vac, L/N/PE, 50/45-55, 60/55-65Hz, 0.85Un-1.1Un			
Max. Output Current	28.7A	38.3A	43.5A	52.2A
Max. Input Current	35A	44A	45.5A	54.6A
Power Factor	~1(-0.8lagging...0.8leading)			
THDi	< 3%			
<b>EPS (OFF-GRID) OUTPUT (WITH BATTERY)</b>				
Rated Output Power	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	< 4 ms			
<b>EFFICIENCY</b>				
Peak Efficiency	96.00%			
MPPT Efficiency	>99%			
<b>INTERFACE</b>				
Communication Interface	LED + LCD / CAN, RS485, CT, NTC, WiFi			
Type of Cooling	Intelligent Air Cooling			
<b>GENERAL DATA</b>				
Size(L*H*W)/mm	411 × 631 × 238 mm			
Weight/kg	30 kg			
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	< 3000 m			
Ingress protection	IP65			
Noise	<45 dB			
Inverter Topology	Transformerless for PV side / HF for battery side			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Type of Cooling	Intelligent Redundant Fan-cooling			
Warranty	5 Years			