

YINERGY PRODUCT

RESIDENTIAL



ALTA SERIES



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.^①
- Generator function for versatile operations.
- Max. 28A input per string, optimized for high-power solar panels.

Hybrid Inverter

Single Phase

- 6kW
- 8kW
- 10kW
- 12kW



Series	ALTA 6K	ALTA 8K	ALTA 10K	ALTA 12K
Model	HI-1P6K-LV	HI-1P8K-LV	HI-1P10K-LV	HI-1P12K-LV
PV Input				
Max. PV Array Power	12000 W	16000 W	20000 W	24000 W
Max. PV Input Power	9600 W	12800 W	16000 W	19200 W
Max. PV Input Voltage	510 V			
Rated Voltage	360 V			
Start-up Voltage	80 V			
MPPT Range	90 V - 425 V			
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 Data				
Battery Type	Lead acid / Lithium			
Rated Voltage	48V			
Voltage Range	40V-60V			
Max.Current	135 A	190 A	200 A	210 A
AC Input & Out (ON-GRID)				
Rated Output Power	6000 W	8000 W	10000 W	12000 W
Max. Output Power	6600 VA	8800 VA	11000 VA	13200 VA
Max. Input Power	6600 VA	8800 VA	11000 VA	13200 VA
Grid Type	220/230Vac, L/N/PE, 50/45-55, 60/55-65Hz, 0.85Un-1.1Un			
Max. Output Current	28.7 A	38.3 A	43.5 A	52.2 A
Max. Input Current	35 A	44A	45.5A	54.6 A
Power Factor	~1(-0.8lagging...0.8leading)			
THDi	< 3%			
Eps (Off-Grid) Output (With Battery)				
Rated Output Power	6000 W	8000 W	10000 W	12000 W
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			
Efficiency				
Peak Efficiency	96.00%			
MPPT Efficiency	>99%			
Interface				
Communication Interface	LED + LCD / CAN, RS485, CT, NTC, WiFi			
Type of Cooling	Intelligent Air Cooling			
General Data				
Size(L*H*W)/mm	411 × 631 × 236 mm		411 × 631 × 238 mm	
Weight/kg	28.6 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			
Standards				
Grid	NRS 097-2-1, IEC61727, IEC62116, PEA, MEA			
Safety	IEC62109-1/, IEC62109-2			
EMC	IEC61000-6-1, IEC61000-6-3			