

YINERGY PRODUCT

RESIDENTIAL



ALTA SERIES



High Performance

- 200% PV oversizing and up to 110% AC output.
- 200% peak EPS power for 10s.
- Max. 290A charging / discharging current.
- 160V 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 < 6ms.



Flexible Adaptability

- Max. 10pcs parallel for on-grid and off-grid.
- Max. 30A input per string, optimized for high-power solar panels.

Hybrid Inverter

Three Phase

- 8kW
- 10kW
- 12kW
- 15kW



Series	ALTA 8K-3P	ALTA 10K-3P	ALTA 12K-3P	ALTA 15K-3P
Model	HI-3P8K-LV	HI-3P10K-LV	HI-3P12K-LV	HI-3P15K-LV
PV Input				
Max. PV Access Power	16000 W	20000 W	24000 W	30000 W
Max. PV Input power	12800 W	16000 W	19200 W	24000 W
Max. input voltage	800 V			
Rated voltage	550 V			
Start-up voltage	160 V			
MPPT voltage range	200 - 700 V			
Max. input current	17A + 17 A		30 A + 30 A	
Max. short circuit current	20 A + 20 A		36 A + 36 A	
Number of MPPT Trackers	2			
Number of Strings per MPPT	1 + 1		2 + 2	
AC Input / Output				
Rated AC Input/output Active Power	8000 W	10000 W	12000 W	15000 W
Max. AC Input/output Apparent Power	8800 VA	11000VA	13200 VA	16500 VA
Rated AC Input Current	12.1A	15.2 A	18.2 A	22.8 A
Rated AC Output Current	11.6A	14.5 A	17.4A	21.8 A
Max. AC Input Current	13.4 A	16.7A	20 A	25 A
Max. AC Output Current	12.8 A	15.9 A	19.2A	24 A
Max. Continuous AC Passthrough	30 A (grid to load)		50 A (grid to load)	
Peak Power (off-grid) 10s	16000 W	20000 W	24000 W	30000 W
Power Factor Range	0.8 leading to 0.8 lagging			
Rated AC voltage Range	220 / 380 V, 230 / 400 V, 0.85 Un - 1.1 Un			
Rated Grid Frequency	50 Hz / 45 Hz ~ 55 Hz, 60 Hz / 55 Hz ~ 65 Hz			
Grid Connection Form	3L + N + PE			
Switch Time	< 6 ms			
THDi	< 3% (of nominal power)			
DC Injection Current	< 0.5% In			
Battery				
Battery type	Lead-acid or Lithium-ion			
Voltage range	40 - 60 V			
Max. charge/discharge current	200 A	220 A	250 A	290 A
Charging Strategy for Lead-Acid battery	3 stages curve			
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
Communication	CAN, RS485			
Efficiency				
Max. Efficiency	97.60%			
Euro Efficiency	96.50%			
MPPT Efficiency	> 99%			
Interface				
Communication Interface	RS485 / RS232 / CAN			
Monitor Mode	WIFI			
General Data				
Operating Temperature	-25 °C~ +60 °C (>45 °C derating)			
Permissible Ambient Humidity	5 ~ 95% (Non-condensing)			
Permissible Altitude	< 3000 m			
Noise	≤ 55 dB			
Ingress Protection(IP) Rating	IP65			
Inverter Topology	Non-isolated			
Over Voltage Category	OVC II (DC), OVC III (AC)			
Surge	TYPE II (DC), TYPE II (AC)			
Cabinet Size (W × H × D)	422 × 658 × 254 mm (Excluding Connectors and Brackets)			
Weight	≤ 45 kg			
Type of Cooling	Intelligent Air Cooling			
Warranty	5 Years			
Grid Regulation	IEC61727, IEC62116, EN50549-1/-10			
Safety Standard	EN 62109-1, EN 62109-2, EMC, IEC / EN 61000-3/-6			
EMC Standard	IEC / EN 61000-6-1/2			