

YINERGY PRODUCT

RESIDENTIAL



ALTA SERIES



High Performance

- 200% PV oversizing and up to 110% AC output.
- 200% peak EPS power for 60s.^①
- Max. 135A 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.
- Afford 350Vac grid fluctuations.



Smart Management

- Smart loads management.
- <4ms UPS level transfer time.
- 6-time-slot battery management



Flexible Adaptability

- Max. 3pcs parallel for on-grid and off-grid.
- Support storing energy from generator.

Hybrid Inverter

Single Phase

3.3kW

4.4kW

5.5kW

6.6kW



Model	HI6-1P3K3-LV	HI6-1P4K4-LV	HI6-1P5K5-LV	HI6-1P6K6-LV
	PV Side			
Max PV Access Power (W)	6000	7200	10000	12000
Max PV Input Power (W)	4800	5760	8000	9600
Max Input Voltage (V)	510			
Rated PV Input Voltage (V)	370			
Startup Voltage (V)	80			
MPPT Range (V)	90 ~ 425			
Max input Current per MPPT	20	20 + 20		
Max. Short Circuit Current per MPPT (A)	32	32 + 32		
No.of MPP Trackers/No.of String Per MPP	1/1	2/1+1		
	Battery Side			
Battery Type	Lead acid / Li-ion			
Rated Voltage	48V			
Voltage Range	40V-60V			
Max.Current	70	90	120	135
Power(W)	3000	4000	5000	6000
Communication	RS485/CAN			
Charging strategy for Lead-Acid battery	3 Stages Curve			
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
	On-Grid			
Rated Output Power (W)	3000	4000	5000	6000
Max Output Power (VA)	3300	4400	5500	6600
Max Input Power (VA)	3300	4400	5500	6600
Grid Type	220/230Vac, L/N/PE, 50/45-55, 60/55-65Hz, 0.85Un-1.1Un			
Rated AC Input (A)	13.7	16.4	22.8	27.3
Rated Output Current (A)	13.1	15.7	21.8	26.1
Max Input Current (A)	15	18	25	30
Max Output Current(A)	14.4	17.3	24	28.7
Max. Continuous AC Passthrough (grid to load)	35			40
Power Factor	~1(-0.8lagging...0.8leading)			
THDi	< 3%			
	Off-Grid			
Rated Output Power (W)	3000	4000	5000	6000
Max Output Power (W)	3000	4000	5000	6000
Output Type	220/230Vac, L/N/PE, 50/45-55, 60/55-65Hz, 0.85Un-1.1Un			
Peak Power (off-grid) (W)	2 times of rated power, 60s; 1.5 times of rated power 30min			
	Efficiency			
Peak Efficiency	97.60%			
Euro Efficiency	96.50%			
MPPT Efficiency	> 99%			
	Standards			
Grid	NRS 097-2-1,IEC61727,IEC62116,PEA, MEA, BIS, EN50549-10			
Sfety	IEC62109-1/, IEC62109-2			
EMC	IEC61000-6-1, IEC61000-6-3			
	Basic Parameters			
Size(L*H*W)/mm	525 x 400 x 227 mm			
Weight/kg	18 kg			
	Interface			
Communication Interface	RS485/CAN/USB			
Monitor Mode	WIFI			
	General Data			
Operating Temperature Range (°C)	-25°C to + 60°C, >45°C Derating			
Storage Temperature(°C)	-25°C ~ +70°C			
Permissible Ambient Humidity	5 to 95% (non condensing)			
Permissible Altitude	2000 m			
Ingress protection	IP65			
Noise (dB)	<35			
Inverter Topology	Non-Isolated			
Over Voltage Category	TYPE II(DC), TYPE II(AC)			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Type of Cooling	Natural convection			
Warranty(Years)	5 Years			

① :With output voltage regulation of load Power.