

TECHNICAL DATA SHEET



INVERTER HYBRID SERIES

Depending on different power situations, this hybrid inverter is designed to generate continuous power from PV solar modules, battery, and the utility. When MPP input voltage of PV modules is within acceptable range, this inverter is able to generate power to feed the grid (utility) and charge battery. This inverter is only compatible with PV module types of single crystalline and poly crystalline.



MODEL	ASTERION HYBRID 5.6K	ASTERION HYBRID 15K	ASTERION HYBRID 30K
TECHNICAL SPECIFICATIONS			
Rated Output Power	5.6 KW / 5.6 KVA	15 KW / 15 KVA	30 KW / 30 KVA
Output Voltage Waveform	Pure Sine Wave		
Nominal Output Voltage	220/230/240 Vac	230 Vac (P-N) 400 Vac (P-P)	220/230/240 Vac
Output Frequency	50.0-60.0 Hz (auto detection)		
Peak Efficiency	96%	91%	96.5%
Nominal DC Input Voltage	48 Vdc	48 Vdc	736 Vdc
Max Charging Current	120 A	300 A	50 A
Transfer Time	<10 ms (UPS) <20 ms (appliances)	<15 ms	—
SOLAR INPUT SPECIFICATIONS			
Max PV Power	6 000 W	22 500 W	40 000 W
MPPT Controllers	1	2	3
Max. PV Array Open Circuit Voltage	450 Vdc	900 Vdc	1000 Vdc
MPP Voltage Range/ Full Load MPP Voltage Range	120–430 Vdc	350–850 Vdc 400-800 Vdc	350–900 Vdc 500-900 Vdc
Max. Input Current	27 A	PV1: 37.2 A PV2: 18.6 A	PV1:26 A PV2:26 A PV3:26 A

GENERAL SPECIFICATIONS			
MODEL	ASTERION HYBRID 5.6K	ASTERION HYBRID 15K	ASTERION HYBRID 30K
Paralell Kit	Yes		
Max Parallel Numbers	To 9 inverters	To 6 inverters	To 4 inverters
Connection	RS-232 Dry contact Wi-Fi	USB RS-232 Wi-Fi (Option, with Wi-Fi box)	USB RS232, RS 485 Wi-Fi
Intelligent Slot	—	SNMP, Modbus, AS-400 (option)	
Monitoring, mobile, PC	Yes	Option (with Wi-Fi box)	Yes
BMS port	Yes	No	Yes
Non-battery mode	Yes	No	No
Safety Certification	CE		
Operating Temperature Range	-10 °C to 50 °C	-10 °C to 55 °C	-25 °C to 50 °C
Humidity	0% to 95% Relative Humidity (Non-condensing)		
Dimension (D*W*H)	140 × 295 × 468 mm	820 × 650 × 224 mm	255 × 660 × 750 mm
Net Weight	12 kg	62 kg	18.4 kg
Material	Metal, plastic		
Country of Manufacture	China		
Warranty	24 months		
Service Life	At least 5 years		



Developer and supplier of energy storage and power generation solutions

<https://energon-group.com/>

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