

TECHNICAL DATA SHEET



MULTI-FUNCTION INVERTER

This is a multi-function inverter, combining functions of inverter, solar charger and battery charger to offer uninterruptible power support in a single package. The comprehensive LCD display offers user-configurable and easy-accessible button operations such as battery charging current, AC or solar charging priority, and acceptable input voltage based on different applications.



MODEL	ASTERION PLUS 5K	ASTERION PLUS 6K on-line	ASTERION PLUS 7.2K	ASTERION PLUS 11K TWIN
TECHNICAL SPECIFICATIONS				
Rated Output Power	5 KW / 5 KVA	6 KW / 6 KVA	7.2 KW / 7.2 KVA	11 KW / 11 KVA
Output Voltage Waveform	Pure Sine Wave			
Nominal Output Voltage	230 Vac \pm 5%			
Output Frequency	50 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz
Peak Efficiency	93%	92%	93%	93%
Nominal DC Input Voltage	48 Vdc			
Max Charging Current	60 A	120 A	80 A	150 A
Charging Algorithm	3-step			
Transfer Time	10ms typical (UPS); 20ms typical (Appliances)	Line mode \leftrightarrow Battery mode 0ms Inverter \leftrightarrow Bypass 4ms	10ms typical (UPS); 20ms typical (Appliances)	
No Load Power Consumption	<50 W	<75 W	—	—
Output Short Circuit Protection	Circuit Breaker	Line mode: Circuit Breaker Battery mode: Electronic Circuits		
Overload Protection	5s@ \geq 130% load; 10s@105%~130% load	100ms@ \geq 200% load; 5s@ \geq 150% load; 10s@110%~150% load	100ms@ \geq 205% load; 5s@ \geq 150% load; 10s@110%~150% load	100ms@ \geq 180% load; 5s@ \geq 120% load; 10s@105%~120% load

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SOLAR INPUT SPECIFICATIONS				
Rated Power	5000 W	6000 W	8000 W	11000 W
MPPT Controllers	1	1	2	2
Max. PV Array Open Circuit Voltage	500 Vdc			
PV Array MPPT Voltage Range	120–450 Vdc	120–430 Vdc	90–450 Vdc	90–450 Vdc
Start-up Voltage	80±5 Vdc	—	150±10 Vdc	
Max. Input Current	—	27 A	18 A*2	
GENERAL SPECIFICATIONS				
Parallel Kit	No	Yes (option)		
Max Parallel Numbers	No	To 9 inverters	To 6 inverters	To 6 inverters
Connection	Wi-Fi			
Monitoring	Yes			
BMS port	Yes			
Safety Certification	CE			
Operating Temperature Range	-10 °C to 50 °C			
Storage Temperature	-15 °C to 60 °C			
Humidity	5% to 95% Relative Humidity (Non-condensing)			
Dimension (D*W*H)	115 × 300 × 400 mm	140 × 295 × 468 mm	147.4 × 432.5 × 553.6 mm	
Net Weight	10 kg	12 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

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