

# TECHNICAL DATA SHEET



## MULTI-FUNCTION OFF GRID 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 INV ECO II 1.5-12M	ASTERION INV ECO II 3.5-24M	ASTERION INV ECO II 5.5-48M	ASTERION INV ECO II 6.2-48MT
<b>TECHNICAL SPECIFICATIONS</b>				
<b>Rated Output Power</b>	1500VA/1500W	3500VA/3500W	5500VA/5500W	6200VA/6200W
<b>Output Voltage Waveform</b>	Pure Sine Wave			
<b>Nominal Output Voltage</b>	220/230 Vac $\pm$ 5%			
<b>Output Frequency</b>	50 Hz / 60 Hz			
<b>Peak Efficiency</b>	93%		94%	
<b>Nominal DC Input Voltage</b>	12 V	24 V	48 V	48 V
<b>Max Charging Current</b>	120 A	100 A	120 A	120 A
<b>Charging Algorithm</b>	CC/CV			
<b>Transfer Time</b>	10ms typical (UPS); 20ms typical (Appliances)			
<b>Output Short Circuit Protection</b>	Electronic circuit			
<b>Overload Protection</b>	5s@ $\geq$ 140% load; 10s@100%~140 % load	5s@ $\geq$ 140% load; 10s@100%~140 % load	5s@ $\geq$ 140% load; 10s@110%~140 % load	5s@ $\geq$ 140% load; 10s@105%~140 % load

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<b>SOLAR INPUT SPECIFICATIONS</b>				
Rated Power	900 W	4000 W	5500 W	6500 W
MPPT Controllers	1	1	1	1
Max. PV Array Open Circuit Voltage	160 Vdc	500 V	500 V	500 V
PV Array MPPT Voltage Range	30-160 V	60-500 V	60-500 V	60-500 V
Max. Input Current	50 A	15 A	18 A	27 A
<b>GENERAL SPECIFICATIONS</b>				
Parallel Kit	No			
Max Parallel Numbers	No			
Communication Interface	RS232/RS485			
Monitoring	Optional with WM-DESS			
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)	225x320x88 mm	225x320x88 mm	433x310x125 mm	438x312x122 mm
Net Weight	6 kg	6 kg	7,6 kg	11 kg
Material	Metal, plastic	Metal, plastic	Plastic	Metal, plastic
Country of Manufacture	China			
Warranty	12 months	12 months	15 months	15 months
Service Life	At least 5 years			
Special features	Li activation function for LFP plastic batteries		Plastic body	Twin AC output controlled by SoC



Developer and supplier of  
energy storage and power  
generation solutions

<https://energongroup.com/>

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