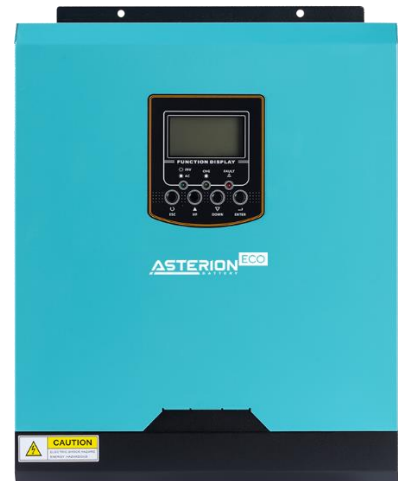


TECHNICAL DATA SHEET



MULTI-FUNCTION INVERTER ECO SERIES

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 ECO 1K	ASTERION ECO 3K
TECHNICAL SPECIFICATIONS		
Rated Output Power	1 KW / 1 KVA	3 KW / 3 KVA
Output Voltage Waveform	Pure Sine Wave	
Nominal Output Voltage	230 Vac \pm 5%	
Output Frequency	50 Hz	
Peak Efficiency	93%	
Nominal DC Input Voltage	12 Vdc	24 Vdc
Charging Algorithm	3-step	
No Load Power Consumption	<25 W	
SOLAR INPUT SPECIFICATIONS FOR PWM CONTROLLER		
MODEL	ASTERION ECO 1K	ASTERION ECO 3K
Charging Current	50 A	
System DC Voltage	12 Vdc	24 Vdc
Operating Voltage Range	15~18 Vdc	30~32 Vdc
Max. PV Array Open Circuit Voltage	55 Vdc	80 Vdc
Max Charging Current (AC charger plus solar charger)	50 A	70 A

SOLAR INPUT SPECIFICATIONS FOR MPPT CONTROLLER		
MODEL	ASTERION ECO 1K	ASTERION ECO 3K
Charging Current	40 A	
System DC Voltage	12 Vdc	24 Vdc
PV Array MPPT Voltage Range	15~80 Vdc	
Max. PV Array Open Circuit Voltage	102 Vdc	
Max Charging Current (AC Charger plus Solar Charger)	60 A	
GENERAL SPECIFICATIONS		
Parallel Kit	No	
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)	88 × 225 × 320 mm	147.4 × 432.5 × 553.6 mm
Net Weight, PWM model	4.4 kg	6.3 kg
Net Weight, MPPT model	4.4 kg	6.5 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/>

TI-ASTERION-SOL-
ASTERION-ECO-221116-EN