## **Smart Battery Charger**

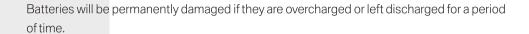
# TRIDENT series

12Vdc 10A, 25A, 40A









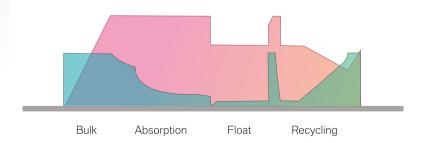
The Trident range of smart battery chargers will continuously monitor and deliver the correct charging profile for all battery types and conditions.

The built in battery management software ensures the batteries life expectancy is maximised.

Using the latest technology and our knowledge of batteries, the Trident range of smart battery chargers are specifically designed for mobile and marine applications where on-board charging is required.



- Active PFC featuring smaller and higher efficiency, max 88%
- Multiple isolated outputs, including slave charger for starter battery
- Automatically work as power supply or charger
- Sophisticated TBB premium II multiple stages charging algorithm for lead acid battery
- Suitable for lithium batteries
- Automatic temperature compensation charging
- Automatic voltage compensation charging
- Special silent design



Nominal output voltage (PS mode) (VDC)	$13.5V \pm 0.256VDC$		
Max output current (A)	10	25	40
Nominal input voltage (VAC)	85 - 265VAC, 50 / 60Hz 165 - 265VAC, 50 / 60Hz		
Charge algorithms	TBB premium II multi stage		
Temperature compensation	Automatically		
Absorption voltage (VDC)	AGM: 14.4V, GEL: 14.1V, LFP: 14.4V, WET: 14.7V		
Floating voltage (VDC)	AGM: 13.5V, GEL: 13.5V, LFP: 13.5V, WET: 13.7V		
Charging current (A)	10	25	40
Min battery voltage (Vdc)	1	1 2	
Efficiency	88%		
Input connector	Cable of 1.5 meter with	IFOlist	
	CEE 7 / 7 plug	IEC socket	
Output connector	Fixed cable, 2.5mm², 1	M4 Screw (16mm²)	
Slave charger	N/A	max 3A	
Output	1	1+1	
Ripple noise	N/A	≤ 200mVp - p	
Regulation accuracy	N/A	≤ 2%	
Cooling	Self cooling	Fan cooling	

BS1210

BS1225

BS1240

### **Protection**

Model No.

Short circuit	Shutdown output, automatically restart when short circuit is removed	
Reverse polarity	No charging	
Charger over temp	Shutdown the charger	
Battery over temp	Shutdown the charger	

#### **Standards**

LVD	EN60335 - 1, EN60335 - 2 - 29
EMC	EN55014 - 1, EN55014 - 2, EN61000 - 3 - 2, EN61000 - 3 - 3

#### **Structure**

Out case	Aluminum + plastic		
Dimension (mm)	175 x 114 x 53	249 x 165 x 74	
Weight (KG)	1.0	1.6	
IP class	IP22		
Insulation resistance	≥ 50MΩ		
Dielectric strength	I/P-O/P: 3.0KV, I/P-PG: 1.5KV, O/P-PG: 0.5KV,		