

Smart Battery Charger

TRIDENT

-12vdc/24vdc

10A / 25A / 40A 12A / 20A



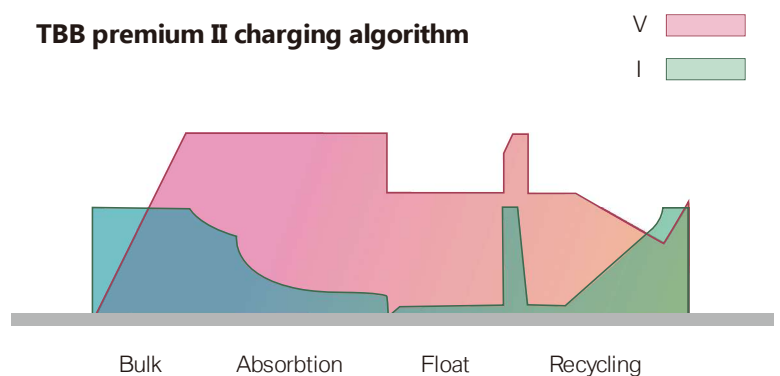
Batteries will be permanently damaged by either overcharged or remaining undercharged for any period of time. TRIDENT smart battery charger will continuously deliver right charging at any circumstance with built in battery management features which will be helpful in prolonging your battery life expectancy.

Combined with up to date technology and our knowledge with batteries, Trident smart battery charger was especially designed for mobile and marine application, it was an ideal solution for your battery charging on board.

Features

- Active PFC featuring smaller and higher efficiency, max 88%
- Multiple isolated outputs, including slave charger for starter battery
- Could 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
- Remote is optional
- Special silent design
- Marine model with three outputs is available

TBB premium II charging algorithm



Model No.	BS1210	BS1225	BS1240	BS2412	BS2420
		BS1225-3	BS1240-3	BS2412-3	BS2420-3

Electrical

Nominal output voltage (PS mode) (VDC)	13.5V ± 0.27VDC			27.0V ± 0.5VDC	
Max output current (A)	10	25	40	12	20
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			AGM : 28.8V GEL : 28.2V LFP : 28.8V WET : 29.4V	
Floating voltage (VDC)	AGM : 13.5V, GEL : 13.5V, LFP : 13.5V, WET : 13.7V			AGM : 27.0V GEL : 27.0V LFP : 27.0V WET : 27.4V	
Charging current (A)	10	25	40	12	20
Efficiency	88%				
Input connector	Cable of 1.5 meter with CEE 7 / 7 plug		IEC socket		
Output connector	Fixed cable, 2.5mm ² , 1		M4 Screw (16mm ²)		
Slave charger	N / A		max 3A		
Output	1		1 + 1		
			2 + 1		
Ripple noise	N / A		≤ 200mVp - p		
Regulation accuracy	N / A		≤ 2%		
Cooling	Self cooling		Fan cooling		
Working temperature	-20°C ~ +60°C				

Protection

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	IP20: For model with 1 or 2 outputs		IP22: For model with 3 outputs		
Insulation resistance	≥ 50MΩ				
Dielectric strength	I / P - O / P : 3.0KV, I / P - PG : 1.5KV, O / P - PG : 0.5KV,				

