

Smart Battery Charger

TRIDENT



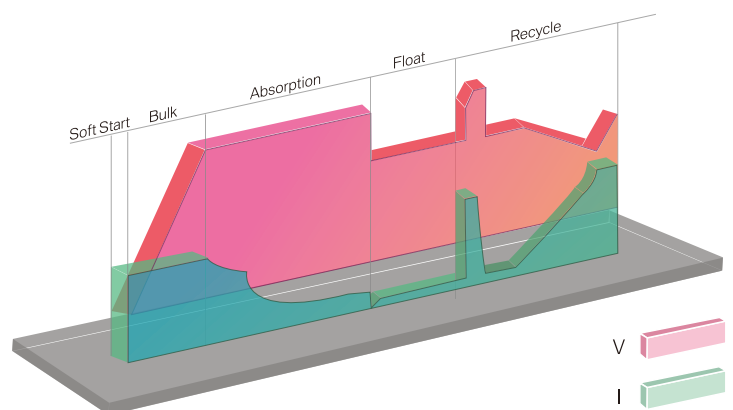
Batteries will be permanently damaged either overcharged or remaining undercharged for any period time. TRIDENT smart battery charger will continuously deliver right charging at any circumstance with built in battery management features which will be helpful in prolonging your battery life expectancy.

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



Remote
(only for 25A / 40A)

- Active PFC featuring smaller and higher efficiency, max 92%
- With 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
- Adaptive charging algorithm for multiple battery chemical including AGM, GEL, etc
- LFP (LiFePO4) charging algorithm is available
- Automatic temperature compensation charging
- Automatic voltage compensation charging
- Programmable with monitor
- Special silent design



Model No.	BS1210	BS1225	BS1225 - 3	BS1240	BS1240 - 3
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Electrical

Nominal output voltage (PS mode) (VDC)	12.8V ± 0.256VDC				
Max output current (A)	10	25		40	
Nominal input voltage (VAC)	85 - 265VAC, 50 / 60Hz	165 - 265VAC, 50 / 60Hz			
Charge algorithms	5 steps. soft start, bulk, absorption, float, recycle				
Temperature compensation	automatically				
Absorption voltage (VDC)	AGM : 13.5V, GEL : 13.5V, LFP : 13.5V, WET : 13.7V				
Floating voltage (VDC)	AGM : 14.4V, GEL : 14.1V, LFP : 14.4V, WET : 14.7V				
Charging current (A)	10	25		40	
Min battery voltage (Vdc)	1	2			
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	1 + 2	1 + 1	1 + 2
Ripple noise	≤ 200mVp - p				
Regulation accuracy	≤ 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	IP22				
Insulation resistance	≥ 50MΩ				
Dielectric strength	I / P - O / P : 3.0KV, I / P - PG : 1.5KV, O / P - PG : 0.5KV,				