Smart Battery Charger

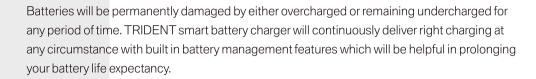
TRIDENT series

12Vdc 10A, 25A, 40A





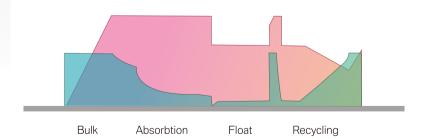




Combined with up to date technology and our knowledge with batteries, Trident smart battery charger was especially designed for mobile and marine application, it was an ideal solution for your battery charging on board.



- 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 chemicals including AGM, GEL, etc.LFP (LiFePO4) battery compatible
- Automatic temperature compensation charging
- Automatic voltage compensation charging
- Programmable with monitor
- Special silent design



| 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 | TBB premium II multi stage | | |
| 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, 2.5mm², 1 | M4 Screw (16mm²) | |
| Slave charger | N/A | max 3A | |
| Output | 1 | 1+1 | |

BS1210

BS1225

≤ 200mVp - p

≤ 2%

-20°C ~ +60°C

fan cooling

BS1240

Protection

Model No.

Ripple noise

Cooling

Regulation accuracy

Working temperature

| 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 | |

Self cooling

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 | ≥50M Ω | | |
| Dielectric strength | I/P-O/P: 3.0KV, I/P-PG: 1.5KV, O/P-PG: 0.5KV, | | |