

TRT chargers V2

Product Information Sheet for Turtle TSB-001 Charger.

Lead Acid / Gel / AGM / VRLA mode

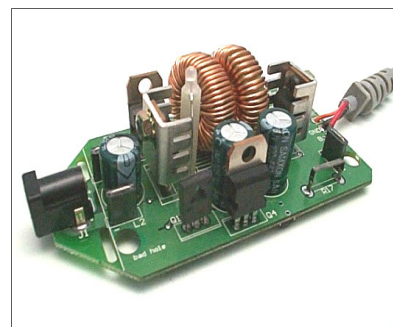
Input: 12-48V DC. (1)
Output: As per label on bottom of turtle shell:
 Constant current into Lead acid battery.
 Voltage controlled. (3) (4)

LED patterns (routine):
 Traffic light (red-orange-green): System reset.
 Occurs at power on or connection of new battery.
 Very brief orange blink: System waiting.
 Solid Orange: Constant current phase. (2)
 Orange with Green blink: Constant voltage limit (boost) phase. (3)
 Solid Green: Charge Complete. (4)
 Float voltage regulation (trickle) phase. (5)

LED patterns (exceptions):
 Slow red blinking: No charge while battery too hot. (6)
 Charge will start automatically once battery cools.
 Charge will not restart if battery has overheated during charge.

Rapid red-orange blinking: Output paused while input volts too low. (7)

Solid red: Fault. (8) Output shutdown.
 System requires a power reset to resume.



Physical characteristics (in standard shell)

Length: 112mm
 Width: 66mm
 Height: 40mm
 Weight: 140g

- (1) Input power supply should be of sufficient power for job.
Power consumption can be calculated by the following equation:
Input power required = ((max battery volts) x (charge current)) / 0.85.
For Lead Acid batteries, max volts = 2.5V per cell.
Power supply should have current rating = (required input power) / (min input volts).
- (2) Tolerance on constant current is +/- 10%. Current limit is customizable, contact the vendor.
- (3) Cycle (boost) phase Voltage limit is 2.45V per cell +/- 1%. NB: if temperature sensing is enabled, voltage limits are temperature compensated such that thresholds are lower when hot and higher when cold. Temperature compensation is 5mV per °C per cell (from 21°C).
- (4) Float phase Voltage limit is 2.30V per cell +/-1%. NB: if temperature sensing is enabled, voltage limits are temperature compensated such that thresholds are lower when hot and higher when cold. Temperature compensation is 3mV per °C per cell (from 21°C).
- (5) End of Cycle (boost) phase is determined by timer, or reduced current threshold, whichever occurs soonest. These thresholds are customizable, contact the vendor.
- (6) If temperature sensing is enabled; max start temperature is 40°C, overheating threshold is 60°C.
- (7) Input low voltage transient limit is 10V.
- (8) Common cause is output short circuit. If fault persists, contact the vendor.

Comprehensive technical support is available; charger is highly customizable; please contact

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Accessories



Mini Adapter

24W (24V 1A)

Matchbox size wall plug adapter. Models for other countries available.



Car Adapter

Car cigarette lighter adapter



Desktop Adapter

48W (12V 4A)