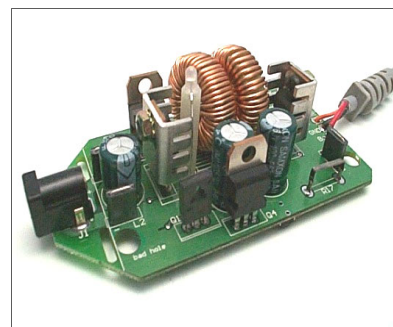


TRT chargers V2

Product Information Sheet for Turtle TSB-001 Charger.

NiCd Mode.

Input:	12-48V DC. (1)
Output:	As per label on bottom of turtle shell: Constant current into NiCd battery.
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)
Solid Green:	Charge Complete. (3) Trickle charge continues. (4)
LED patterns (exceptions):	
Slow orange blink (single):	Trickle charge while battery volts too low. (5)
Slow orange blink (double):	Charge stopped because battery volts too high. (6)
Monotonous orange blinking:	Timeout. (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 NiCd batteries, max volts = 1.85V 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.
NB: It is normal for the current to pause for one second every minute.
- (3) Charge termination by $-\Delta V$ test. $-\Delta V$ threshold is customizable, contact the vendor.
- (4) Trickle charge is (normal current) / 60, delivered as a 4 second burst or current once every 4 minutes.
- (5) Trickle charge at current limit / 4 if battery volts less than 0.8V per cell.
- (6) Output stopped if reaches 1.85V per cell. Normally caused by high impedance in one or more cells or in looming connections.
- (7) Tolerance on timing is +/- 5%. Time limit is customizable, contact the vendor.
- (8) Common causes are output short circuit or input Volts too low. Input low voltage transient limit is 10V. 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)