SNAPTEC
www.snaptec.com.au

TRT SERIES

Li-Ion Smart Chargers 1-10 Cells

- *Wide DC Input : 12-48 VDC*
- *Smart Charging algorithm for Li-Ion batteries*
- *Safety timer feature*
- *Thermistor sensing and interface*
- *C-tick marked and Safety Authority Approved*
- *Suitable for a wide range of industrial and IT applications*

ELECTRICAL SPECIFICATIONS

Charger Output: The charger is preset by the factory for charging the exact number of cells as specified on the charger label. This could be between 1 to 10 cells.

Charging Sequence: The charger follows a smart charging algorithm with three steps:

(1) Constant Current (CC) mode: at the beginning of charging , a constant charging current is applied to charge the battery pack until the pack voltage reaches the required level voltage.

(2) Constant Voltage (CV) mode: The output will keep the constant required voltage level until the charging current has dropped below the predefined and programmed level after which the charger shuts down

(3) In addition the charger also terminates the charging process when (a) The battery pack temperature reaches 50°C or (b) Charging time reaches its maximum preset limit , between 5 and 10 hours.

PART Number Desciptions: TRTzz-XX-YY

XX: Current rating for the Charger
YY: Safety timer in hours
ZZ: Number of Cells

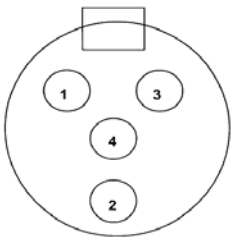
AC Adaptor: If this charger is operated from the AC mains then a suitable AC adaptor is required, Suitable AC adaptors are available from Snaptec with ratings of 25W , 50W or 60W.

MECHANICAL SPECIFICATIONS

Charger Input: DC Input Jack is either 3.5mm / 1.3 mm (OD)/(ID) for charger 20W or less. 5.5mm/2.5mm for chargers above 20W.

Charger Output: 4 Pin connector plug (see drawing below) with a cable length of 45 ± 5 cm. The matching female connector is available (Part number PS1926 Jaycar Electronics) .

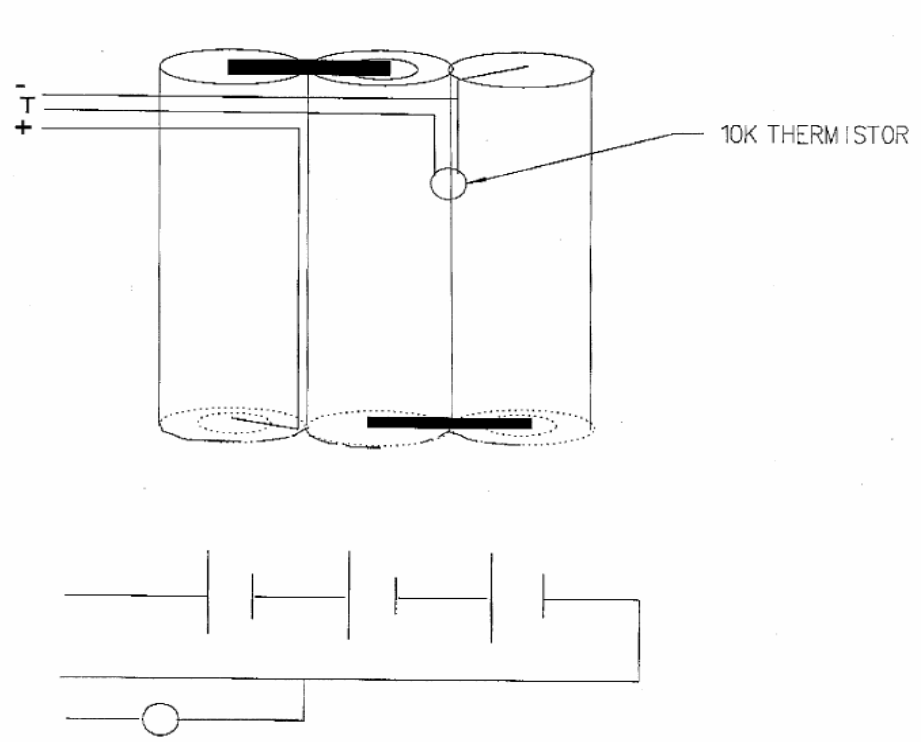
Pin 1: Pack +
Pin 2: No Connection
Pin 3: Thermistor
Pin 4: Pack -



Dimensions: 115 x 67 x 40 mm

Weight: 120g Approximately

BATTERY PACK CONNECTION



OPERATION STEPS:

(1) Plug the AC Adapter output in to the TRT charger input plugh and then plug the AC adaptor in the AC power outlet. The TRT charger power indicator (RED LED) will light up and within 20 seconds the Status Indicator (Clear LED) will turn to Green color for about 1 second showing the charger is ready.
(2) Plug the TRT output plug in the battery pack . The charging process will begin and the status indicator will turn RED.
(3) The Status indicator will stay RED until the battery pack is fully charged and when complete the status indicator LED will turn Green.
(4) In case of problems please check battery pack and repeat above steps. If problem persists please contact Snaptec.

CHECKS BEFORE PROCEEDING:

(1) Make sure the electrical AC adaptor output rating is compatible with the TRT charger being used.
(2) Make sure the electrical AC adaptor output is compatible with the DC input of the charger being used.
(3) Make sure the battery pack is compatible with the TRT charger being used
(4) The 4 wires and the 4 pin connector of the output cable are pre-set at the factory. Do not swap their connections which may cause serious hazards.
(5) Do no plug the electrical adaptor output plug directry in any battery pack as this may cause electrical hazard and damage to the battery pack and adaptor.
(6) The TRT charger is designed for use in temperatures of 50°C or less. Do not operate at higher temperatures.
(7) The TRT charger is a precise tool and should be kept away for high power EMI radiating sources and devices.
(8) If the TRT charger is removed from the power source you must wait 15 seconds for charger to reset before charger is re-connected and charging can continue.