



- ◆ **DC Input : 24V VDC**
- ◆ **Smart Charging algorithm for NiMH & Ni-CD batteries**
- ◆ **Safety timer feature**
- ◆ **C-tick marked and Safety Authority Approved**
- ◆ **Suitable for a wide range of industrial and IT applications**

ELECTRICAL SPECIFICATIONS

Adaptor: Input 240VAC , 50Hz , Output : 30VDC / 0.8A

Charging mode: Pulsed current with constant amplitude

no load output voltage: 32.3V

loading output voltage: 8.5V to 20V

Quick charge terminating conditions: 1- -dV appears , 2- 0 dV appears (pack voltage remains unchanged for 10min during charging) , 3- Maximum charging time = t (max)

Trickle charge: After quick charge completes, the charger will provide a very small current (about 1/13 of the average charging current) until power is removed.

Model Number description: STNzz-xyy : XX : means the charging current , YY: Maximum charging time t (max) , ZZ: Number of cells. Example: STN12-1050 means I (ave) = 1.0A and t(max) = 5.0 hours , Number of cells = 12

MECHANICAL SPECIFICATIONS

Charger Input: DC Input Jack is 3.5mm / 1.3 mm (OD)/(ID)

Output cable: Cable length: 45.0 +/- 1.0cm ,

Output Plug: H 5.5mm / 2.5mm (OD)/(ID), Other options available upon request.

Dimensions: 115 x 67 x 40 mm

Weight: 120g Approximately

MODEL NUMBERS SELECTION TABLE

Model	Number of Cells	Nominal Voltage	Charging Current	Charging Time
STN01-1090	1	1.2V	1.0A	9 hours
STN03-1575	2,3	2.4V , 3.6V	1.5A	7.5 hours
STN06-1050	4,5,6	4.8V , 6.0V , 7.2V	1.0A	5 hours
STN09-1050	7,8,9	8.4V , 9.6V , 10.8V	1.0A	5 hours
STN12-1050	10,11,12	12V , 13.2V , 14.4V	1.0A	5 hours
STN12-1090	10,11,12	12V , 13.2V , 14.4V	1.0A	9 hours

CUSTOM MODELS:

We can custom design our chargers to your exact specifications , the model numbers shown in this table are just the most common.

OPERATION PROCEDURES

1. Plug the AC adaptor output plug into the STNzz charger input plug and then plug the AC adaptor into the AC wall output. The STNzz 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 STNzz output plug into the battery pack that will start the process of the charger detecting the battery voltage. When the detected voltage is between a certain lower and upper threshold (depending on the model of the charger) the status indicator will turn RED color , showing the battery is normal and the charging will start. If the battery voltage is not within this range, the charger will not operate. The lower and upper threshold range is shown in the selection table below.
3. The status indicator will stay RED until the battery pack is fully charged and when complete the status indicator will turn GREEN.
4. In case of problems , please check battery pack and repeat above steps. If problem persists please contact Snaptec.

The following check should also be made before proceeding:

1. Make sure that the electrical adaptor output rating is the same as the STNzz before connecting.
2. Make sure that electrical adaptor input voltage is compatible with the power source.
3. Make sure battery pack is compatible with the STNzz before connecting the battery pack.
4. Do not plug electrical adaptor output plug directly into any battery pack as this may cause an electrical hazard or damage electrical adaptor or battery pack.
5. The charging time from complete empty to full can be estimated as follows: Charging time = 1.1 * pack capacity AH / charging current A . If charging time is found too soon compared with the estimated time , the battery pack might be already charged.
6. If the STNzz is removed from power source you must wait 15 seconds for charger to reset before charger is reconnected and charging can continue
7. The STNzz charger is designed for use only in temperatures of 60 °C / 140° F or less.
8. The charger is a precise tool and should be kept away from high power EMI radiating devices.