

# Universal Battery Charger

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## PSCH15

### NiMH/NiCd Smart Charger

#### Features

- Universal 90-264VAC Input
- IEC320 C8 2 pin AC Input Connector
- Auto detect output can charge 2 to 12 NiMH or NiCd cells in series
- Automatic cut off when batteries fully charged
- EMC to EN55022 'B', CISPR22 'B' & FCC 'B'
- Compact Desk Top Plastic Enclosure
- Optional DC Output Connectors (2.5 x 5.5mm as standard)



#### Electrical Specification

##### INPUT

Input Voltage	90-264VAC 1A max
Input Frequency	47-63Hz
Safety Ground Leakage Current	<0.5mA

##### OUTPUT

Output Voltage	Varies to charge 2.4V to 14.4V DC battery pack
Charging Current	500mA to 1A
LED Charge Status Indicator	LED flashes Red then Green twice after power on then switches off in standby LED is Red when charging and turns Green when battery fully charged. LED will flash on and off RED for error status
Over Voltage Protection	Sense level 18V, OVP at 24V max
Short Circuit Protection	Short circuit with auto recovery
Reverse Polarity Protection	Reverse polarity of battery on output will not damage charger
Efficiency	75% minimum at full load and 115VAC input

##### ENVIRONMENTAL

Operating Temperature	0 to 40°C, ambient
Storage Temperature	-40°C to +70°C
Relative Humidity	20-85% max operating

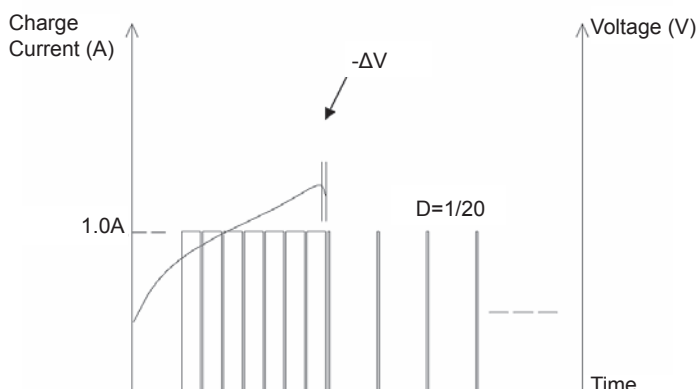
##### SAFETY & EMC

Safety	UL/cUL1310 Class 2, EN60335-2-29:2004, EN60335-1, CE
EMI/EMC	CISPR22 'B', FCC Part 15 'B', EN55022 'B'

##### MECHANICAL

UL94V-1 plastic enclosure, dimensions 96 x 44 x 30mm, output cable 1.2 metre

#### Charge Curve



This charger can charge between 2 and 12 NiMH or NiCd cells connected in series and will detect and provide the correct output voltage and current to suit. End charge is by  $-\Delta V$  (about 5mV for each cell) detection, after  $-\Delta V$ . It will turn to trickle-off charge, it's charger current is fast charging current of 1/20.

**Warning:** This charger should only be used to charge NiMH or NiCd batteries with a capacity between 1000mAh and 4000mAh