**Engineering Data**

**Energizer – Universal charger, Model No. BC-5HU**

**PRODUCT DESCRIPTION:**

Description: Computer Controlled Universal NiMH /NiCd Battery Charger

Type: **Desk top type with direct plug-in type power unit**

Technology of batteries: Nickel-Cadmium / Nickel-Metal Hydride

Batteries Charged Size: D, C, AA, AAA and 9V cell

Number of channels: 4 channels (2 for D/C/AA/AAA and 2 for 9V)
- for 2 or 4pcs. AA / AAA / C / D and 1-2pcs 9V Ni-MH/Ni-Cd battery.

Plastic enclosure material: Acrylonitrile Butadiene Styrene (ABS), type no. PA-765, flame class: 94V-0, file E56070 or other equivalent.

Case color: Silver for the cover
Dark grey for the base & bottom case

Primary: Powered by an external AC Adaptor (18V DC 500mA)

Dimensions: (without power unit) 185mm(L) x 182mm(W) x 60mm(H)

Weight: (without power unit) 455 grams (approx.)
(Adaptor) 460 grams (approx.)

**TECHNICAL SPECIFICATIONS:**

Primary Voltage and Frequency (Adaptor) 220 – 240V 50Hz (European, Australian, Asian market)

Primary Voltage (Charger) 120V 60Hz (US market)

Output: AA/C/D - 2 x (2.8V 550mA)
AAA - 2 x (2.8V 280mA)
6F22 - 2 x (9.0V 12-16mA)*
*Remark: Charging current for 9V cell is 12mA at full load of the charger and 16mA for 9V charging only.

Trickle charge (D/C/AA/AAA): 30mA ± 10mA

**Important Notice**

This datasheet contains information specific to battery chargers manufactured at the time of its publication.

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Type of end of charge detection:
1. $\Delta V$ detection \hspace{1cm} 8mV ± 3mV
2. max timer control \hspace{1cm} AAA/AA/C/D – 5.5hr

Safety features:
\begin{enumerate}
\item $\Delta V$ charging cut-off
\item Safety timer to prevent over charge
\item Reverse-polarity protection (Mechanical arrangement to prevent charging cells in reverse.)
\end{enumerate}

Temperature:
- **Storage temperature:** -20°C to 55°C
- **Working temperature:** -10°C to 35°C
  - Casing maximum temperature during charging temperature rise: 35°C
  - Batteries maximum temperature during charging temperature rise: 35°C

Description of the Leds:
- AAA/AA/C/D cell
  - Red LED - Rapid mode;
  - Green LED - Trickle mode
- 9V cell
  - Red LED – Standard charge mode

**CHARGING TIME:**

\begin{align*}
\text{Fully charge 2 or 4pcs Ni-MH AAA 800mAh} & \quad : \quad 3h45 \\
\text{Fully charge 2 or 4pcs Ni-MH AA 2100mAh} & \quad : \quad 4h30 \\
\text{Fully charge 2 or 4pcs Ni-MH AA 2300mAh} & \quad : \quad 5 \text{ hours} \\
\text{Fully charge 2 or 4pcs Ni-MH AA 2500mAh} & \quad : \quad 5h30 \\
\text{Fully charge 2 or 4pcs C and D 2300mAh} & \quad : \quad 5 \text{ hours} \\
\text{Fully charge 1 or 2pcs Ni-MH 9V 150mAh} & \quad : \quad 12 \text{ hours} \\
\end{align*}

(the other charging slots are without batteries)

\begin{align*}
18 \text{ hours} \\
\end{align*}

(all charging slots are loaded with batteries)

*Charge time will vary with the capacity, condition, and amount of charge left in the battery to be charged.*
Drawing / Dimensions

Picture:

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