

I. Scope

This approval sheet shall be applied to Nickel-Metal Hydride battery pack manufactured by Power Solution Technology Inc.

II. Specification

No.	Item	Description
1	Type	For NOKIA 3210 series
	Battery model	HF-B1U
2	Nominal Voltage	2.4V (1.2V per cell)
3	Nominal Capacity	880 mAH
4	Standard Charge	880 mA / 65 min
5	Stand Discharge Current	0.2 CmA
6	Max Discharge Current	1.0C
7	Discharge Cut-off Voltage	2.0V (1.0V per cell)
8	Capacity	Discharge current 0.2CmA with 2.0Vout-off After the Standard Charge
9	Capacity Approval	$\geq 95\%$ Nominal Capacity (charge: 880mA / 65min, discharge:0.2C)
10	Operating Temperature	Charge 0 ~ 40°C Discharge 0 ~ 50°C
11	Storage Temperature	3 month -20 ~ 40°C 1 year -20 ~ 30°C
12	Over Current Protection	SRP120 Trip 2.7A / 20°C

Length 110mm
Width 35mm
Thickness 7mm

III. Safety

1. Overcharge test

Description :

Charge shall be conducted continuously at 88mA for 16 hours. The battery pack appearance shall be inspected and the discharge duration shall be measured at 0.2CmA to the final voltage of 2.0 V.

Criterion :

The battery pack shall not cause deformation and leakage at external appearance.

2. Discharge test

Description :

After standard charge, the battery pack shall be forced discharged at a constant current of 0.2 CmA for 24 hours.

Criterion :

The battery pack shall not disrupt or burst, leakage of electrolyte and deformation of the battery are acceptable.

3. External Short test

Test method :

To short-circuited between terminals of the battery pack by the lead wire with the cross section area of 0.75 square millimeter.

Criterion :

The battery pack shall not explode, electrolyte leakage and deformation of the battery pack are acceptable.

IV. Methods for Use

1. Storage :

The battery packs are requested to be stored under the following conditions:

- a. Indoor storage without direct sunbeam on battery packs.
- b. Circumstances recommended

Temperature : $-20 \sim 30^{\circ}\text{C}$

Humidity : $+65 \pm 20\%\text{RH}$.

2. Charging

- a. Use suitable charger with the specified voltage and current.
- b. Do not continue trickle charge beyond one day.
Continue trickle charge may cause capacity-loss of cell.
Back-up timer recommended for the charge system.
- c. Do not reverse-charge.

3. Discharging

- a. Do not over-discharge battery packs.
- b. Do not short-circuit battery packs.

4. For safety

- a. Do not disassemble battery packs.
- b. Do not use the battery packs when something abnormal found such as smells, deformation, discoloration and so on.
- c. When electrolyte-leakage occurs, do not touch the liquid. .

- d. Place faulty Battery packs in relatively safe area .
- e. Once watered, packs may have potential mal-functions or damage. Do not use those packs.
- f. Do not leave battery packs in the hot-temperature(50°C or higher).
- g. Do not put battery packs into fire.
- h. Do not crush/nail battery packs.