

Ni-MH Battery Pack

1. Charging Battery Pack

Before first time using this battery, charge it with a provided charger for 90 minutes. In order to achieve full battery capacity and maximum power for your printer, you should fully charge the battery.

1. Place this battery pack on a flat stable surface.
2. Open the charger socket cover.
3. Plug the power cord of the charger into a properly grounded outlet, and then plug the charger connector into the charger socket. (refer to figure 1).

Figure 1



Charger Connector Charger Socket DC Power Cord to Printer

Figure 2



LED

4. Charge the battery for 90 minutes.
5. It will stop charging automatically after the battery is fully charged.

2. Connecting to a Printer

1. Unplug the charger connector.
2. Connect the power cord to a printer power jack.

3. LED Indication

- LED off: Battery voltage is above 22.7V or under 17V.
- Red: Battery voltage is between 22.7V and 17V.

The battery is at normal status with LED off, which is not at a low voltage status. When the LED is red, which means the battery is at low voltage, and the battery needs to be recharged. The LED will be off again when the voltage is lower than 17V, which is an over-discharge protection.

4. Storage

Storage Temperature and Humidity

- The storage temperature is between 10°C and 30°C. Also keep this battery away from humidity and corrosive environment.
- It will lead to battery rust or/and leak if the storage temperature is above 40°C or below -20°C or the storage humidity is extremely high. Those may reduce a battery performance and damage a battery characteristic.

Long Term Storage

If you use your battery for seasonal activities and you must store it for extended periods of time, please do the following:

1. Charge the battery until it is completely charged.
2. Store it in a cool place but not below -20°C. All batteries lose some charge when stored. Note that the lower the temperature, the lower the self-discharge.
3. Check the battery every three months and recharge it if necessary.
4. Recharge a battery before reuse the battery after long time storage.

5. The Life of a Battery

The life of a battery is between 500 charge-discharge cycles or more at normal conditions. So the battery life is two to three years for average users. When your rechargeable battery begins to die, you will notice a decline in the running time of the battery. When a battery is not used for extensive periods of time, it should be stored in a cool, dry and clean environment. Self-discharge will occur when the battery is not used for an extended time period. Fully charge the battery before use after a long-term storage.

6. Warnings

Avoid A Short Circuit

Do not short-circuit your battery; otherwise it may damage the battery.

Avoid Disassembling

Do not disassemble your battery; otherwise it may damage the battery or lead to a burn.

Avoid for Other Applications

Do not use battery packs for any other applications than specified; otherwise it may damage both the battery and the appliances.

Keep Away from Fire or Humidity Environment

Keep the battery away from fire or from extreme hot environment but keep it in a dry place; otherwise it may lead to an explosion.

Avoid Reversed Polarity

Do not insert a battery reversed in its positive and negative poles. It will cause the battery swelled or ruptured.

Avoid Overcharge at A High Current

Do not overcharge a battery at high currents. It may rapidly generate gas and increase pressure then cause the battery swelled or ruptured.

Prohibition for Handling A Battery

- Do not supply the voltage 30.4 V between \oplus and \ominus .
- Do not charge a battery over 1.8 A.
- Do not discharge a battery over 18 A or below 19 V.
- Do not short-circuit between any terminal.
- Do not directly connect two or more different batteries together.

7. Specification

| Item | Description |
|---|---|
| <i>Model</i> | BP-2000 |
| <i>Rated Voltage</i> | 22.8V (1.2V/ cell) |
| <i>Typical Capacity</i> (standard charge) Pack (rating discharge) Single Cell (0.1C charge/0.2C discharge) | 1800mAh 2200mAh (typical) 2000mAh (minimum) |
| <i>Standard Charge</i> (constant current) | 0.18A x 15hrs |
| <i>Maximum Charge Voltage</i> | Max. 30.4V |
| <i>Rapid Charge*</i> (constant current) | 1.8A x 1~1,2hr |
| <i>Rated Discharged Current</i> | 1.8A |
| <i>Maximum Discharge Current</i> | 6C |
| <i>Momentary Maximum Discharge Current</i> | 10C (less than 1 sec) |
| <i>Operation Temperature**</i> Charge Discharge Storage | 10°C ~ 45°C -20°C ~ 50°C -40° C ~ 50°C |
| <i>Relative Humidity</i> | Max. 85% |
| <i>Weight</i> | Approx. 1.5 ± 0.1 Kg |

* A special designed control system required.

** Refer to Storage Temperature and Humidity.