# GP Batteries

**DATA SHEET**

## Model No.: **220DHC** (Revamp)

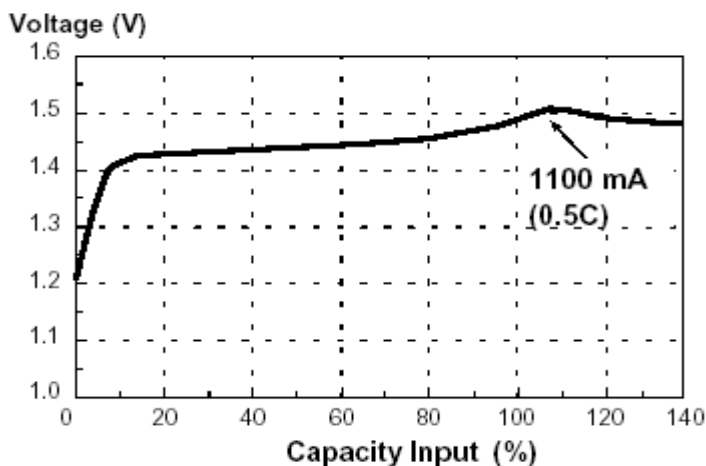| | | |
|---|---|---|
| **Type** | : | Rechargeable Nickel Metal Hydride Cylindrical Cell |
| **Nominal Dimension (with Sleeve)** | : | $\Phi$ = 34.2mm<br>H = 61.5mm |
| **Applications** | : | Recommended discharge current 220mA to 6600mA |
| **Nominal Voltage** | : | 1.2V |
| **Capacity** | : | Rated: 2200mAh<br>Typical: 2200mAh<br>When discharged at 440mA to 1.0V at 20℃ |
| **Charging Condition** | : | 220mA for 16hrs at 20℃ |
| **Charge Retention** | : | 80% of nominal capacity after cell storage at 20℃ for 12months<br>When discharged at 0.44A to 1.0V at 20℃ |
| **Fast Charge** | : | 1100mA (0.5C)<br>charge termination control recommended control parameters:<br>-ΔV : 0-5mV<br>DT/dt : 0.8℃/min (0.5C)<br>0.8 - 1℃/min (1C)<br>TCO : 45 - 50℃<br>Timer : 105% nominal input (for ref. only) |
| **Service Life** | : | Up to 1000 cycles (IEC standard) |
| **Continuous Overcharge** | : | 220mA maximum current for 1 year. No conspicuous deformation and/or Leakage |
| **Weight** | : | 71.0g |
| **Internal Resistance** | : | Average 45mΩ upon fully charged (MAX. 55mΩ) at 1000Hz |
| **Max. Charging Voltage** | : | 1.5V at 220mA charging |
| **Ambient Temperature Range** | : | Standard Charge : 0 to 40℃<br>Fast Charging : 10 to 40℃<br>Discharge : -20 to 50℃<br>Storage : -20 to 35℃<br>Storage(1 week) : -20 to 60℃ |

**1.5MIN**

**61.50** +0 -2.0

**34.20** +0 -2.0

**7.80-7.90**

**unit: mm**

### Low Rate Discharge

Voltage (V)

Charge : 220 mA x 16 hrs at 20℃

1,100mA (0.5C)　　440mA (0.2C)　　220mA (0.1C)

Discharge Time (Hrs)
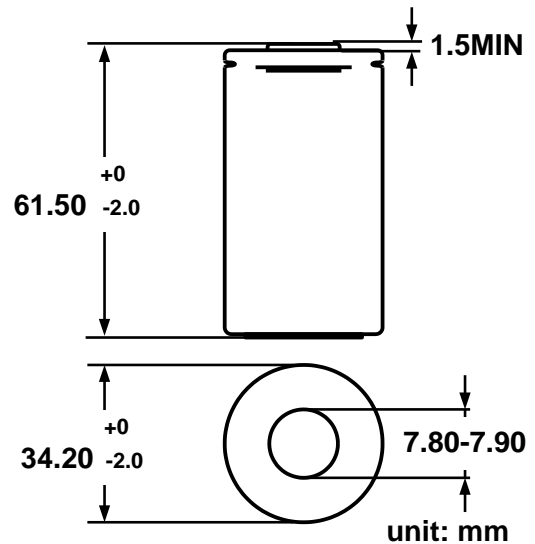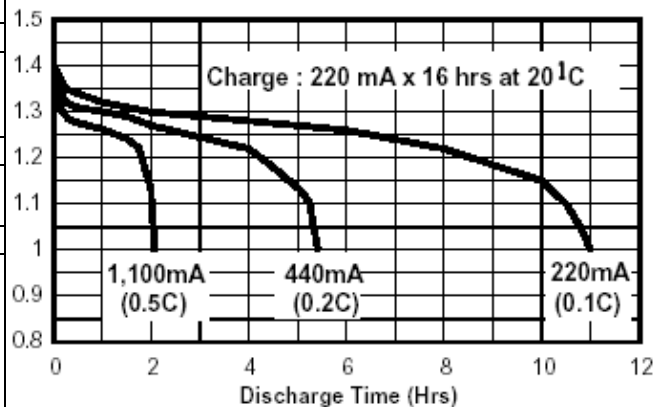
### Fast Charge（Charge Control required）

Voltage (V)

1100 mA (0.5C)

Capacity Input (%)

### High Rate Discharge

Voltage (V)

Charge : 220 mA x 16 hrs at 20℃

6,600mA (3C)　4,400mA (2C)　2,200mA (1C)

Discharge Time (Mins)
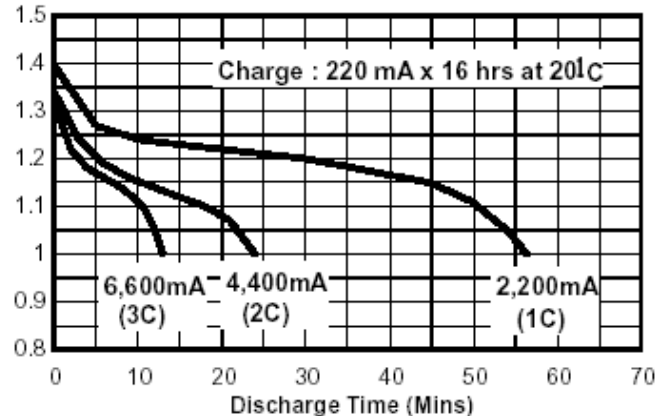
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