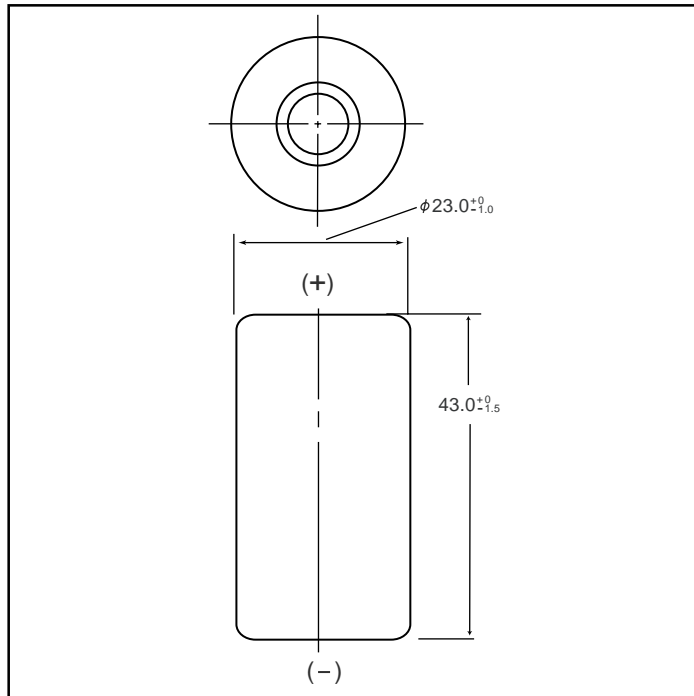


NICKEL METAL HYDRIDE BATTERIES: INDIVIDUAL DATA SHEET

HHR250SCH Cylindrical SC size (HR 23/43)

Dimensions (with Tube) (mm)



Specifications

| | mm | inch |
|--------------------|-------------|--------------|
| Diameter | 23.0+0/-1.0 | 0.91+0/-0.04 |
| Height | 43.0+0/-1.5 | 1.69+0/-0.06 |
| Approximate Weight | Grams | Ounces |
| | 55 | 1.94 |

| | | | |
|--------------------------------------------------------|----------------------|-----------------------------------|-----------------------------|
| Nominal Voltage | | 1.2V | |
| Discharge Capacity ¹ | Average ² | 2650 mAh | |
| | Rated (Min.) | 2500 mAh | |
| Approx. Internal impedance at 1000Hz at charged state. | | 5mΩ | |
| Charge | Standard | 250mA x 16hrs. | |
| | Rapid ³ | 1250mA x 2.4 hrs. ⁴ | |
| | Low Rate | 125mA x 32 hrs. 83mA x 48 hrs. | |
| Ambient Temperature | Charge | Standard | °C °F |
| | | Rapid | -10°C to 45°C 14°F to 113°F |
| Storage | Discharge | -10°C to 60°C 14°F to 140°F | |
| | | < 1 year | -20°C to 35°C -4°F to 95°F |
| | < 6 months | -20°C to 45°C -4°F to 113°F | |
| | < 1 month | -20°C to 55°C -4°F to 131°F | |
| | < 1 week | -20°C to 65°C -4°F to 149°F | |

¹ After charging at 0.1It for 16 hours, discharging at 0.2It.

² For reference only.

³ Need specially designed control system

Control System:

dT/dt cut-off; 1 to 2°C/min

-ΔV cut-off; -ΔV per cell = 5 to 10 mV

T-control; T=65°C

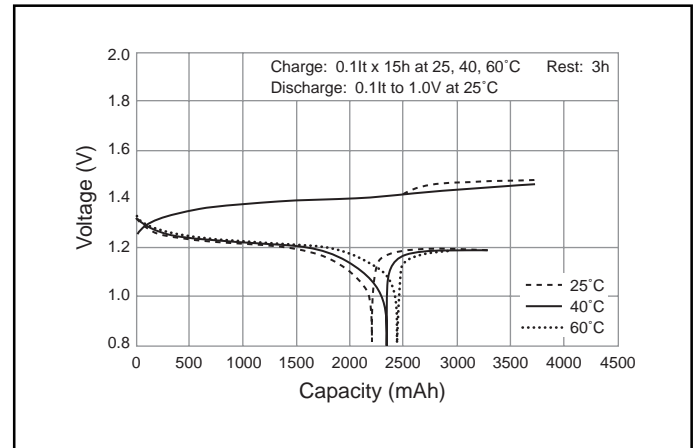
Rapid charger timer; 2.4h (at 1.25a)

Trickle timer; within 2h

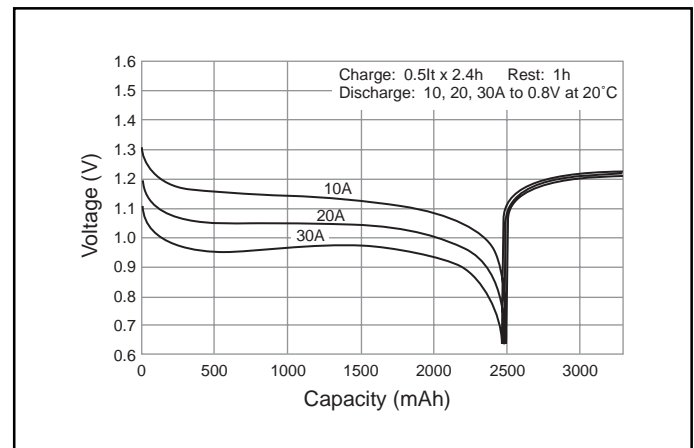
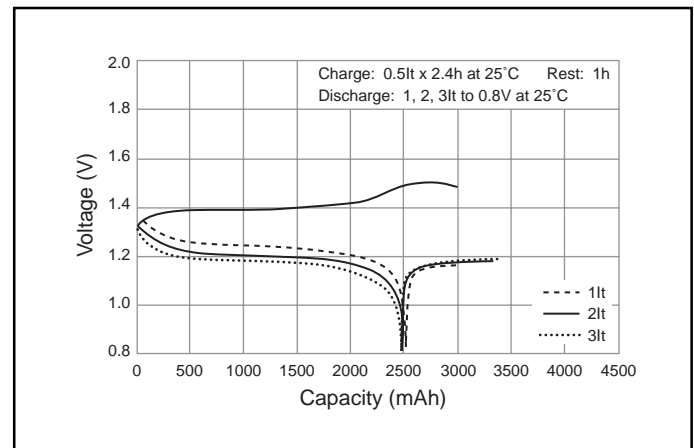
⁴ With control system

Battery performance and cycle life are strongly affected by how they are used. In order to maximize battery safety, please consult Panasonic when determining charge / discharge specs, warning label contents and unit design.

Typical Charge Characteristics



Typical Discharge Characteristics



Note: [It] was previously expressed as [C]. [It] is an IEC standard expression for the amount of charge or discharge current and is expressed as:

$$It(A) = C_n (Ah)/1h$$

* [It] is the reference test current in amperes

* [C_n] is the rated capacity of the cell or battery in Ampere-hours.

n = the time base [hours] for which the rated capacity is declared

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