V 500 HRT
Rechargeable Ni-MH Button

Data Sheet

Type Number: 55850
System: Nickel Metal Hydride/
        KOH Electrolyte

Nominal Voltage [V]: 1.2
Nominal Capacity C [mAh]: 500
Typical Capacity C [mAh]: 510
at 100 mA / 1.00 V

Weight, approx. [g] 14.0

Dimensions [mm]:
    min.  max.
    Length [l]: 23.9  24.1
    Width Facing [w]: 33.9  34.1
    Height [h]: 6.1  6.6

UL Recognition: MH 13654 (N)

Coding: Manufacturing 5 digit code
        (123 = day/4 = year/ 5 = version)

Temperature Ranges [°C] min.  max.
Storage: less than 30 days -40  65
Discharge: -20  65
Charge: 0  65

Charging Method:
Normal Charging: 50 mA for 14 – 16 h
Accelerated Charging (20°C): 150 mA for 4 h
    Time controlled, voltage control recommended
Fast Charging (20°C): 500 mA for h *
Trickle Charging: 5 mA

Overcharge (20°C):
    15 mA up to 12 months
    50 mA up to 6 months

Charge Retention [%] at 20°C: 80
    Capacity available after 1 month Storage at 20°C

Internal Resistance [Ohm]: 0.1
    at charged cells, 20°C, DC: 0.2 CA/2 CA, (IEC 61951-2)

Impedance [Ohm]: 0.015
    at charged cells, 20°C, AC: 1kHz, (IEC 61951-2)

Typical Capacities [mAh]:
    at 500 mA / 0.9 V 470
    at 1.50 A / 0.9 V 420

Max. Discharge Current (cont.) [mA]: 3000

Life Expectancy (typical):
IEC Cycle: 1000 Cycles (IEC 61951-2)
Trickle Charge: up to 5 years (20°C)
Trickle Charge: up to 3 years (45°C)

* (-dv=5-10 mV/ cell; dT/ dt=0.7°C/min)
Capacities based on normal charging