

NiMH rechargeable battery (button cell, 2PLF-version for PCB-mounting)

Type:

Z3H80-2PLF

Technology:

Rechargeable Nickel Metal Hydride Battery

Nominal Voltage [V]:

3,6

Open Circuit Voltage *(OCV) [V]:

3,75; within 1~4h after standard charge

Nominal Capacity C [mAh] Standard Charge/Discharge:

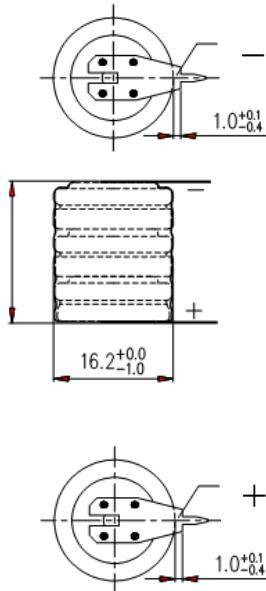
80; IEC509: 1988 (4.2.1)

Typical Capacity C [mAh] Standard Charge/Discharge:

90

Weight, approximately [g]:

12

Dimensions [mm]:**Temperature Ranges [°C]****Charge :** 0 ~ +45 **details see below *******Discharge:** -20 ~ +45**Storage:** +20 ±10**Charging Methods****Standard Charge [mA]:** 8 (0,1C) for 14-16h charge at +20±5°C
*** Charging temperature 0°C~+45°C.**Accelerated Charge [mA]:** 16 (0,2C) for 8h charge at +20±5°C
*** Charging temperature +10°C~+45°C.**Trickle Charge [mA]:** 2,4~4,0 Continuous Charge (0,03C~0,05C).
at*** 0°C~+45°C.**Discharging Methods****Standard Discharge [h]:** ≥ 5; discharge at 0,2C (16mA) to a final voltage 3,0V at +20±5°C.**By maximum discharge current [min]:** ≥80; discharge at 0,5C (40mA) to a final voltage of 2,7V at +20±5°C.**Discharge at 0+2°C [h]:** ≥ 4; discharge at 0,2C (16mA) to a final voltage of 3,0V.**Overcharge [h]:** ≥ 4,25; at +20±5°C, charge at 0,1C (8mA) for 28 days , rest for 1~4h,then discharge at 0,2C (16mA) to a final voltage of 3,0V.|**Storage****Storage Temperature [°C]:** +20±10**Storage Relative Humidity [%]:** 65±20**State of Charge :** Discharge at 0,2C (16mA) to final voltage of 3V, then store for 12 month.**Charge Retention [h]:** ≥ 3,75; after standard charge, store for 28 days at +20±5°C, then discharge at 0,2C (16mA) to a final voltage of 3,0V.**Expected Lifetime :** ≥ 500 cycles ; IEC 509: 1988 (4.4)**Max. Discharge Current continuous [mA]:** 40

***OCV:** When battery open-circuit voltage is below 3,75V before first time application or after long time storage , the battery shall be charged at 0,1C (8mA) for 16h or at 0,2C (16mA) for 8 h and rested for 1~4h then discharged at 0,2C (16mA) to a final voltage of 3,0V. Recycle for 2~3 times, then charge the battery to restore capacity for using.