VH 700 AAA
Rechargeable Cylindrical Cells (NiMH)

Data Sheet

Type Number: 55171
Designation IEC: HR 11 / 45
System: NiMH
UL Recognition: MH13654
Nominal Voltage: 1.2 V
Rated Capacity (0.2 C / 1.0 V): 700 mAh

Impedance AC at 1 kHz, fully charged: < 40 mOhm

Typical Capacity at 0.2 C / 1.00 V: 730 mAh

Max Discharge Current (cont. / 1.0 V): 2100 mA

Dimensions:
- Diameter (a): 10.5 ± 0.7 mm
- Height (b): 43.7 ± 1.0 mm
- Cap Diameter (d): 4.7 mm
- Weight, approx: 13 g

Charge Conditions:
Standard Charge: 70 mA / 16 h (t_max)
Fast Charge (charge termination control recommended): 350 mA to 700 mA
Control parameters:
- ∆U = 0 – 5 mV
- DT / dt = 0.8 °C / min (0.5 to 0.9 C)
- 0.8 °C – 1 °C / min (1 C)
Temp. cut-off = 45 – 50 °C
Timer: 105 % nominal input

Trickle Charge (0.05 - 0.1 C):
- 35 - 70 mA

Temperature Range:
Storage 1 Year: -20 °C - +25 °C
- 6 Month: -20 °C - +35 °C
- 1 Month: -20 °C - +45 °C

(1) recharge every 6 months
Charge: 0 °C - 45 °C
Fast Charge: 10 °C - 45 °C
Discharge: -20 °C - 50 °C

All Data contained herein is for single cells.
For battery applications, performance data may vary from single cell data, depending on specific battery configuration.