



Designation IEC:

HR 03

Size:..... **AAA**
 Nominal Voltage:..... **1.2 V**
 Rated Capacity:..... **1000 mAh**
 Internal Resistance DC, fully charged:..... **80 mOhm**
 Impedance AC at 1kHz, fully charged:..... **40 mOhm**

Typical Capacity at:

0.2 C / 1.00 V:..... **1000 mAh**
 1.0 C / 0.90 V:..... **850 mAh**
 Max Discharge Current (continuous / 0.8 V):..... **2.0 A**

Charge Retention:

After one year 65% of initial capacity at 20° C determined at 0.2 C rate

Dimensions (including shrink sleeve/label):

Diameter a:..... **10.5_{-1.0} mm**
 Height b:..... **44.5_{-1.2} mm**
 Shoulder Height c:..... **43.7_{-1.2} mm**
 Cap Diameter d:..... **3.8_{-2.0} mm**
 Volume:..... **3.8 cm³**
 Weight approx:..... **14 g**

Charge Conditions at:

Standard Charge:..... **100 mA, 16 h**
 Fast Charge:..... **1000 mA (dT/dt, -dV)**
 Trickle Charge (0.03 - 0.05 C):..... **30 – 50 mA**

Temperatures (recommended / permissible) at:

Storage:..... **-20° C ... 25° C / -20° C ... 40° C**
 Charge:..... **15° C ... 30° C / 0° C ... 45° C**
 Fast Charge:..... **15° C ... 30° C / 0° C ... 40° C**
 Discharge:..... **0° C ... 40° C / 0° C ... 50° C**

No publication or circulation of data to third parties without consent of VARTA Consumer Batteries