



**Designation IEC:**

HR 20

|   |          |
|---|----------|
| Size:.....                                  | D        |
| Nominal Voltage:.....                       | 1.2 V    |
| Rated Capacity:.....                        | 3000 mAh |
| Internal Resistance DC, fully charged:..... | 40 mOhm  |
| Impedance AC at 1kHz, fully charged:.....   | 30 mOhm  |

**Typical Capacity at:**

|  |          |
|--|----------|
| 0.2 C / 1.00 V:.....                             | 3000 mAh |
| 1.0 C / 0.97 V:.....                             | 2850 mAh |
| Max Discharge Current (continuous / 0.8 V):..... | 6.0 A    |

**Dimensions (including shrink sleeve/label):**

|                       |         |                         |
|-----------------------|---------|-------------------------|
| Diameter              | a:..... | 34.2 <sup>-1.9</sup> mm |
| Height                | b:..... | 61.5 <sup>-2.0</sup> mm |
| Shoulder Height       | c:..... | 60.0 <sup>-2.0</sup> mm |
| Cap Diameter          | d:..... | 9.5 <sup>-1.7</sup> mm  |
| Volume:.....          |         | 55 cm <sup>3</sup>      |
| Weight approx:.....   |         | 73 g                    |
| Energy Density:.....  |         | 65 Wh/l                 |
| Specific Energy:..... |         | 46 Wh/kg                |

**Charge Conditions at:**

|                                      |               |
|--------------------------------------|---------------|
| Standard Charge:.....                | 300 mA, 16 h  |
| Fast Charge:.....                    | 3000 mA (-dV) |
| Trickle Charge (0.03 - 0.05 C):..... | 90 - 150 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     |

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