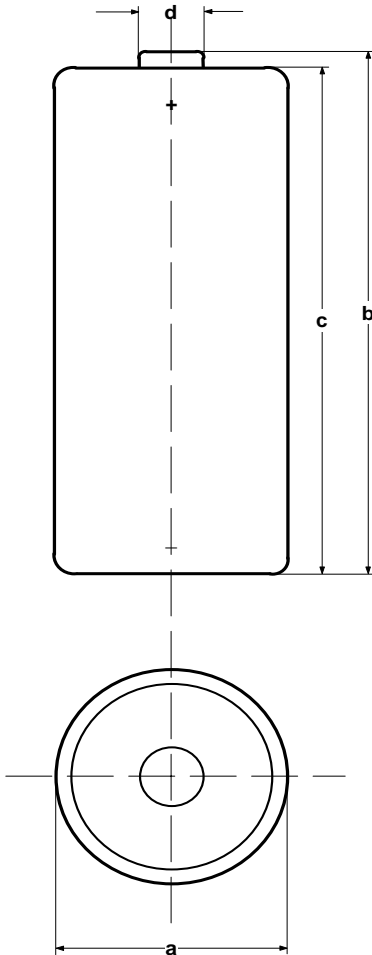


**Data Sheet      Sealed rechargeable Ni-MH Cylindrical Cell / Ready 2 Use      56720**



<b>Designation IEC (Draft):</b>	<b>HR 20</b>
Size:.....	<b>D</b>
Nominal Voltage:.....	<b>1.2 V</b>
Rated Capacity:.....	<b>3000 mAh</b>
Internal Resistance DC, fully charged:.....	<b>40 mOhm</b>
Impedance AC at 1kHz, fully charged:.....	<b>30 mOhm</b>

<b>Typical Capacity at:</b>	
0.2 C / 1.00 V:.....	<b>3000 mAh</b>
1.0 C / 0.97 V:.....	<b>2850 mAh</b>
Max Discharge Current (continuous / 0.8 V):.....	<b>7,5 A</b>
Max Short Time Current (2 sec / 0.75 V):.....	<b>15 A</b>

<b>Dimensions (including shrink sleeve/label):</b>	
Diameter      a:.....	<b>34.2<sup>-1.9</sup> mm</b>
Height          b:.....	<b>61.5<sup>-2.0</sup> mm</b>
Shoulder Height   c:.....	<b>59.5<sup>-2.0</sup> mm</b>
Cap Diameter    d:.....	<b>9.5<sup>-0.5</sup> mm</b>
Volume:.....	<b>55 cm<sup>3</sup></b>
Weight approx:.....	<b>78 g</b>
Energy Density:.....	<b>65 Wh/l</b>
Specific Energy:.....	<b>46 Wh/kg</b>

<b>Charge Conditions at:</b>	
Standard Charge:.....	<b>300 mA, 16 h</b>
Fast Charge:.....	<b>3000 mA (-dV)</b>
Trickle Charge (0.03 - 0.05 C):.....	<b>90 - 150 mA</b>

<b>Temperatures (recommended / permissible) at:</b>	
Storage:.....	<b>0° C ... 45° C / -45° C ... 50° C</b>
Charge:.....	<b>10° C ... 35° C / -20° C ... 50° C</b>
Fast Charge:.....	<b>10° C ... 35° C /</b>
Discharge:.....	<b>-20° C ... 45° C / -45° C ... 50° C</b>

**Life Expectancy at Cycling:      more than 500 cycles**

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

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