Preliminary Engineering Data

This Data Sheet describes the requirements and properties of Lithium-Polymer rechargeable battery (PoLiFlex®) manufactured by VARTA Microbattery GmbH - Germany.

Type Number: 66661
Designation IEC ---
System Lithiumcobalt-oxide-Graphite / Polymer Lithium Electrolyte
UL Recognition Pending

Nominal Voltage [V] 3,7 (average)
Typical capacity C [mAh] 1020 (at C/5 from 4.2 V to 3.0 V at RT)
Nominal capacity C [mAh] 980 (at C/5 from 4.2 V to 3.0 V at RT)

Dimensions [mm] max.
  Length (l)  59
  Width (w)  37
  Height (h)  5.0
  Pouch (a)  54

Weight, approx. [g] 21,0

Charging Method Constant current + Constant voltage
Charge Voltage [V]  4.2 (+/- 50 mV)
Initial charge current [mA] Standard Charge: C/2
                        Rapid Charge: 1C
Charging cut-off (a) or b)
a) by time [h] Standard Charge: 5
   Rapid Charge: 3
b) by min. current [mA] 10

Discharge cut-off voltage [V] 3.0
Max. Pulse Discharge Current [mA] 2940

Operating temperature [°C] Charge: 0 to 45
                           Discharge: -20 to 60

Charge retention 3) [%] 1 year at -20 to 20°C >70
                        3 month at -20 to 45°C >70
                        1 month at -20 to 60°C >70

Impedance initial [mΩ] 50 @ 1kHz

Life expectancy C/2, 20°C [Cycles] > 500 (>70 % of initial capacity)

2) Pass through 37.0 x 5.0 mm gap with no damage measured at delivering time.
3) After storage at initial cell voltage of 3.7 to 3.9 V/cell; capacity C/5 measured at 20°C.
4) RT, 23 °C - 25 °C

1) Prior to use read Handling Precaution and Prohibitions for VARTA PoLiFlex® Batteries

VARTA Microbattery GmbH
Daimlerstr. 1, D-73479 Ellwangen, Germany
Tel: (+49)7961-921-0; Fax: (+49)7961-921-553
Date of Issue: 01.03.2004/WoS