Preliminary Data Sheet

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

Type Number: 66351
Designation IEC ---
System Lithiumcobaltoxide-Graphite / Polymer Lithium Electrolyte
UL Recognition Pending

Nominal Voltage [V] 3.7 (average)
Typical capacity C [mAh] 650 (at C/5 from 4.2 V to 3.0 V at 20°C)
Nominal capacity C [mAh] 620 (at C/5 from 4.2 V to 3.0 V at 20°C)

Dimensions [mm] max.
Length (l) 62
Width (w) 35
Height (h) 3.8
Pouch (a) 56

Weight, approx. [g] 15.0

Charging Method Constant current + Constant voltage
Charge Voltage [V] 4.2 (+/- 50 mV)
Initial charge current [mA] Standard Charge: C/5
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] 2000 / for 10 s
Temperature range [°C] Charge: 0 to 45
Discharge: -20 to 60
Storage: -20 to 60

Charge retention [%] 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] 90 – 130, @ 1kHz

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

*) Pass through 35.0 x 3.8 mm gap with no damage measured at delivering time.
**) After storage at initial cell voltage of 3.7 to 3.9 V/cell; capacity C/5 measured at 20°C.
***) Depending on PCM (@ 3.9 V; RT).

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

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