Data Sheet ¹

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

Type Number: 66591
Designation IEC ---
System Lithiumcobaltoxide-Graphite / Polymer Lithium Electrolyte
UL Recognition MH 13654

Nominal Voltage [V] 3.7 (average)
Typical capacity [mAh] 550 (at C/5 from 4.2 V to 3.0 V at 20°C)
Nominal capacity C [mAh] 520 (at C/5 from 4.2 V to 3.0 V at 20°C)

Dimensions [mm]
Length (l) 41 + 0.5
Width (w) *) 34
Height (h) *) 4.4
Pouch (a) 36

Weight, approx. [g] 10.5

Charging Method Constant current + Constant voltage
Charge Voltage [V] 4.20 (+/- 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] C/50

Discharge cut-off voltage [V] 3.0
Max. Pulse Discharge Current [mA] 1560 @ 2 s
Max. Cont. Discharge Current [mA] 1040

Operating temperature [°C] Charge: 0 to 45
Discharge: -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] 85 @1kHz

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

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

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