



EVOLVEO LiPower 217 Max 5000

PRODUCT DATA SHEET

Electrical characteristics

Type / pack	Rechargeable cylindrical Li-ion; 3 separate cells
Nominal / minimum capacity	5000 / 4900 mAh
Capacity test conditions	After standard charge; discharge at 0.2C to 2.5 V; 25 ± 2 °C
Nominal voltage	3.7 V
Nominal energy	18.5 Wh / cell
Pack energy (sum)	55.5 Wh
Standard CC/CV charge	2.45 A $\rightarrow$ 4.20 V; terminate at 98 mA; 25 ± 2 °C
Additional charge currents	Temperature-dependent maxima: see page 2
Discharge / cut-off voltage	Standard 4.90 A; cut-off 2.50 V
Internal AC impedance, 1 kHz	≤ 20 m Ω ; fresh cells, 25 ± 2 °C

Cell voltage varies with state of charge. Current limits apply to the cell under the stated conditions; equipment and charger limits must also be observed.

Mechanical and temperature characteristics

Cell diameter / height	21.6 ± 0.2 / 71.2 ± 0.2 mm
Specification cell mass	69 ± 2 g
Charge / discharge temperature	0 to +45 °C / -20 to +60 °C
Storage: 1 / 3 / 12 months	-20 to +60 / -20 to +45 / -20 to +25 °C
Max. charge current by temperature	0 to +5 °C: 0.98 A; > +5 to +15 °C: 2.45 A; > +15 to +45 °C: 4.90 A
Max. discharge current by temperature	-20 to +5 °C: 4.90 A; > +5 to +45 °C: 9.80 A; > +45 to +60 °C: 4.90 A
Humidity / thermal protection	0-60% RH, non-condensing; stop discharge if cell surface > 70 °C

Cycle life

Up to 800 charge cycles; capacity in cycle 801 at least 80% of initial capacity at 25 ± 2 °C. Test regime: charge at 2.45 A / 4.20 V to 245 mA; discharge at 4.90 A to 2.50 V.

Recommended use

For routine charging, we recommend no more than 1.0 A per cell at +10 to +35 °C and a Li-ion CC/CV 4.20 V charger with automatic termination. These are recommended operating conditions, not maximum cell ratings. Do not short-circuit, overheat or mechanically damage the cell. Follow the common user manual and safety instructions.

Manufacturer / importer

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