European Batteries

EB 45 Ah

European Batteries EB 45 Ah | Type: High Energy | Cell Model: 001 | Version: 1.3

ELECTRICAL CHARACTERISTICS AT 25 °C

Nominal Capacity @ C/5 (Ah)	45
Average Operating Voltage @ C/5 (V)	3.2
Internal Impedance AC 1000 Hz (mΩ)	<2.0
Energy Density (Wh/kg)	146
System	Lithium-Iron-Phosphate $LiFePO_4$ cathode Graphite anode

RECOMMENDED OPERATING CONDITIONS

Continuous Discharge (A)		45
Pulse Discharge (A), 30 s, Voltage>2,5 V		135
Pulse Discharge (A), 10 s, Voltage>2,5 V		160
Charge Current (A)		22.5
Maximum Charge Voltage (V)		3.65
Discharge Voltage Cutoff (V)		2.5
	Min	**Max**
Storage Temperature (°C)	– 30	45
Charge Temperature (°C)	0	45
Discharge Temperature (°C)	– 20	45

MAXIMUM OPERATING CONDITIONS

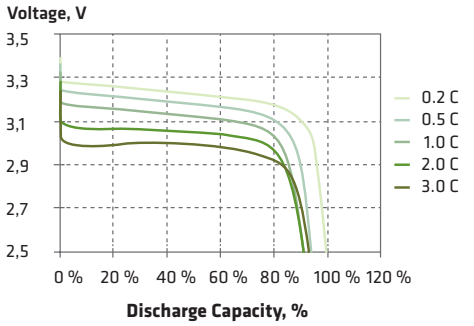
Continuous Discharge (A)		135
Pulse Discharge (A), 30 s, Voltage>2,5 V		160
Pulse Discharge (A), 10 s, Voltage>2,5 V		210
Charge Current (A)		45
Pulse Charge (below 80% SOC, A)		135
Maximum Charge Voltage (V)		3.65
Discharge Voltage Cutoff (V)		2.5
	Min	**Max**
Storage Temperature (°C)	– 40	60
Charge Temperature (°C)	– 10	60
Discharge Temperature (°C)	– 25	60

MECHANICAL CHARACTERISTICS

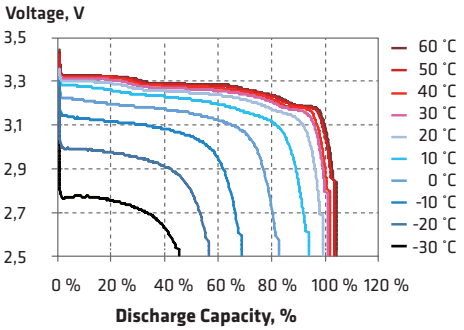
Width (mm)	165 ± 1
Height (without terminal, mm)	275 ± 1
Thickness (mm)	13 ± 0.5
Weight (g)	990 ± 10

CELL PERFORMANCE

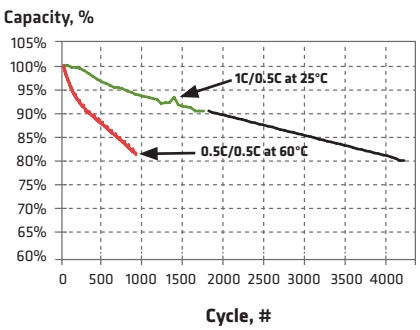
Voltage Curves at Different Discharge Rates at 23 °C



Temperature characteristics at 0.2 C discharge.



Life cycle performance at 23°C and at 60°C



FOR THE LONG RUN™ **European Batteries Oy** Karapellontie 11 FI-02610 ESPOO, Finland info@europeanbatteries.com www.europeanbatteries.com

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