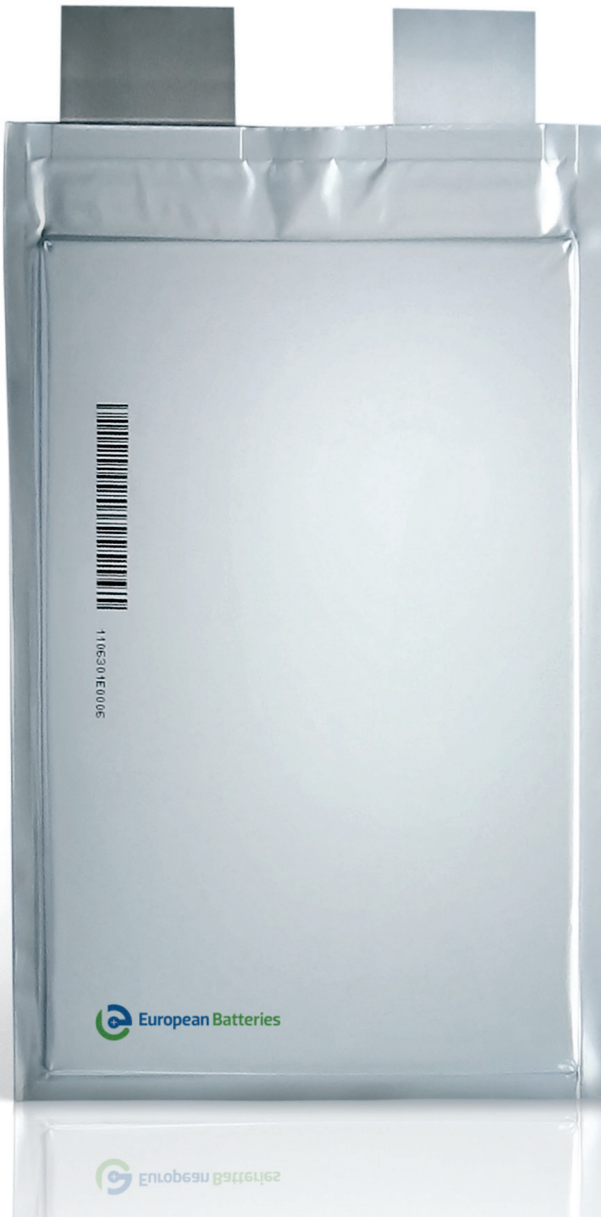


# EB 45 Ah

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 <sub>4</sub> 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	
	<b>Min</b>	<b>Max</b>
Storage Temperature (°C)	- 30	45
Charge Temperature (°C)	0	45
Discharge Temperature (°C)	- 20	45

## MAXIMUM OPERATING CONDITIONS

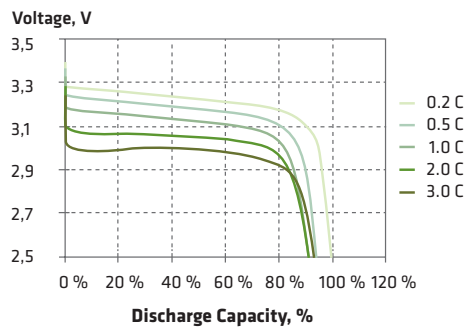
Continuous Discharge (A)	135	
Pulse Discharge (A), 30 s, Voltage>2,5 V	160	
Pulse Discharge (A), 10 s, Voltage>2,5 V	210	
Charge Current (A)	45	
Pulse Charge (below 80% SOC, A)	135	
Maximum Charge Voltage (V)	3.65	
Discharge Voltage Cutoff (V)	2.5	
	<b>Min</b>	<b>Max</b>
Storage Temperature (°C)	- 40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

## MECHANICAL CHARACTERISTICS

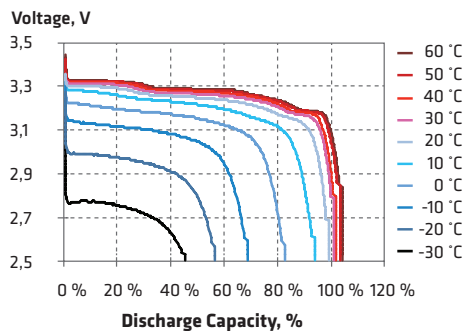
Width (mm)	165 ± 1
Height (without terminal, mm)	275 ± 1
Thickness (mm)	13 ± 0.5
Weight (g)	990 ± 10

## CELL PERFORMANCE

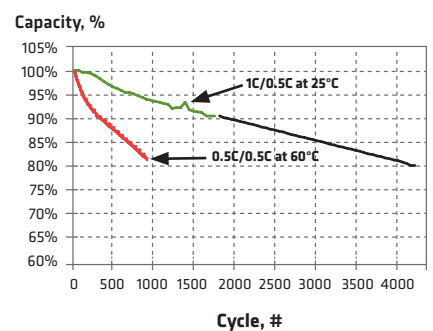
### Voltage Curves at Different Discharge Rates at 23 °C



### Temperature characteristics at 0.2 C discharge.



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



The information contained in this datasheet pertains specifically to the average battery cell characteristics at the time of publication. This information cannot be guarantee or warranty claims and can be derived on the product properties of cells. The actual characteristics and the lifetime of the cells are mainly influenced by the temperature, storage conditions, unloading and loading conditions of the application. It is the responsibility of the user that the application complies with all relevant operating and safety instructions to the cells in accordance with existing standards and regulations. Specifications are subject to change without notice.