European Batteries EV 45 Ah

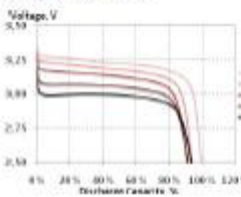
Type: High Energy Cell **Model: 001 Version: 1.3**

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 (144 W)	
Pulse Discharge (A), 30 s, Voltage>2,5 V	135 (410 W)	
Pulse Discharge (A), 10 s, Voltage>2,5 V	160 (520 W)	
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	40
Discharge Temperature (°C)	-20	45
Maximum Operating Conditions		
Continuous Discharge (A)	135 (410 W)	
Pulse Discharge (A), 30 s, Voltage>2,5 V	160 (520 W)	
Pulse Discharge (A), 10 s, Voltage>2,5 V	210 (600 W)	
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	45
Discharge Temperature (°C)	-25	60

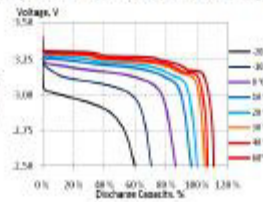
Mechanical characteristics	
Width (mm)	165 ± 1
Height (without terminal, mm)	275 ± 1
Thickness (mm)	13 ± 0.5
Weight (g)	990 ± 10

Cell Performance

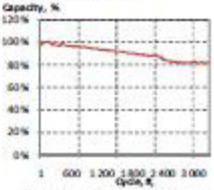
Voltage Curves at 25 °C



Temperature characteristics with 0.5 discharge



Life cycle performance



100% DOD, with 0.5C charge and 0.5C discharge

The information contained in this datasheet is average 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.