European Batteries

EV 45 AH

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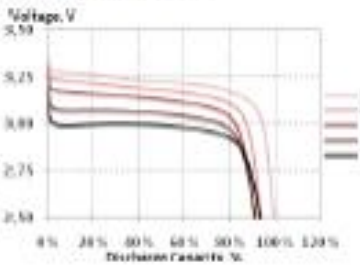
Type: High Energy Cell **Model: 001 Version: 1.3**

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

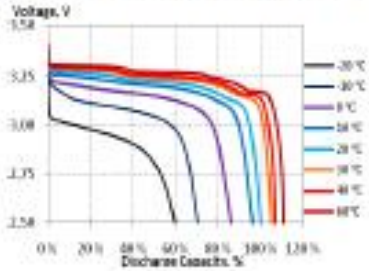
Mechanical characteristics	
Width (mm)	165 ± 1
Height (without terminal, mm)	275 ± 1
Thickness (mm)	13 ± 0.5
Weight (g)	990 ± 10

Cell Performance

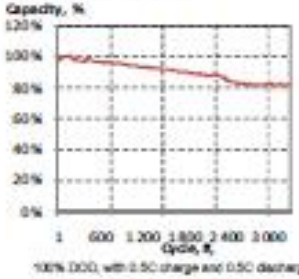
Voltage Curves at 25 °C



Temperature characteristics with 0.5 discharge



Life cycle performance



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