

BBOX – 25.6V – 206Ah (with BMS)

Warranty: 6,000 cycles OR 6 years

B-BOX	
Manufacturer	BCell Group
Battery Name	BBox-25.6V-206Ah
Warranty Duration	6,000 cycles OR 6 years
Technology	LiFePO ₄ (Lithium Iron Phosphate)
Cell Configuration	8S
Nominal Capacity	206 Ah
Nominal Voltage	25.6 V
Nominal Energy	5.27 kWh
Nominal Energy (90% DoD)	4.75 kWh
Nominal Energy (80% DoD)	4.22 kWh
Nominal Energy (70% DoD)	3.69 kWh
Energy Density	≥ 160 Wh/Kg
Cycle Life (80% DoD / 25°C @ 0.5P / 0.5P)	≥ 6000 (@70% EOL)
CONFIGURATION	
Series Configuration	None
Parallel Configuration	Up to 16
CHARGING	
Charge C-rate (Recommended)	0.3 C
Charge C-rate (Maximum Continuous)	0.5 C
C-rate charge (Maximal 10 secondes)	1 C
Charge Current (Recommended)	65 A (0.3 C)
Charge Current (Maximum Continuous)	105 A (0.5 C)
Charge Current (Maximum 10 Seconds)	200 A (1 C)
Charge Voltage (Recommended)	27.6 V
Charge Voltage (Maximum)	≤ 28.2 V
Charge Voltage (Minimum)	26.8 V

DISCHARGE	
Discharge C-rate (Recommended)	0.3 C
Discharge C-rate (Maximum Continuous)	0.5 C
Discharge C-rate (Maximum 10 Seconds)	1 C
Discharge Current (Recommended)	65 A (0.3 C)
Discharge Current (Maximum Continuous)	105 A (0.5 C)
Discharge Current (Maximum 10 Seconds)	200 A (1 C)
Discharge Cut-off Voltage	20.7 V
Monthly Self-discharge Rate	≈ 3%
TEMPERATURE	
Charging Temperature (Min / Max)	0 °C / 50 °C
Discharging Temperature (Min / Max)	-10 °C / 50 °C
MECHANICAL	
Enclosure Type	Stainless Steel
Power Connections	M8 Studs (Maximum 15 Nm)
Protection Class	IP20 — optional IP21 available
Cooling	Air
Dimensions (L * I * h)	460 * 353 * 225 mm
Total Weight	50 Kg (±5 Kg)
SAFETY	
Battery Management System (BMS)	Integrated Master / Slave BMS
Balancing	Passive
Communication	Bus CAN / RS-485
Fire Protection System	Optional
Fuse	Internal Fuse 400A
INTEGRATED BMS (200 A)	
Number of Internal Cells in Series	8
Maximum Number of Batteries in Parallel	16
Power Consumption (Standby)	None
Power Consumption (Active)	< 40 mA
Overcharge Protection	210 A

Display	LCD
Communication Ports	Bus CAN / RS-485
Bluetooth monitoring	Yes
STANDARDS	
EMC : Emission	EN-IEC 61000-6-3
EMC : Immunity	EN-IEC 61000-6-1
Low Voltage Directive	EN 60335-1
Certifications	CE Compliant, RoHS Compliant
OPERATING CONDITIONS	
Operating Temperature Range	-10 °C / 50 °C
Humidity	95% Maximum (non-condensing)
STORAGE CONDITIONS	
Storage Temperature	< 35 °C
Humidity	< 80%

Compatible Brands:



Notes on Specifications

DoD = Depth of Discharge. It is recommended to maintain an average daily DoD of up to 80% for extended lifespan, and 50% average DoD for ultra-long lifespan. The maximum allowable DoD is 90%.

Voltage is compatible with various low-voltage DC inverters. Please contact Bcell Group or your supplier for assistance with pairing.

End of Life (EoL) is defined as a cell reaching 60% of its Beginning of Life (BoL) capacity for the expected lifetime, and 70% of BoL capacity for warranty purposes.

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