

power-xtra

Model: Power-Xtra PX2770145P - 3.2V 20 Ah LiFePO4 Battery - 5C - with Terminal
Stock Code: 900.640.503.031

TECHNICAL INFORMATION

Item	Specifications	Conditions
Nominal Voltage	3.2±0.05V	1C, 25±2℃, 2.5~3.65V
Charging	Method	CC-CV
	Voltage	3.65±0.05V
Typ. Capacity	20 Ah	1C, 25±2℃, 2.5~3.65V
Minimum Capacity	20 Ah	
Internal Impedance	≤3.5mΩ	AC 1kHz after standard charge
Standard Charge Current	20 A (1.0C)	25±2℃
Standard Discharge Current	20 A (1.0C)	25±2℃
Maximum Continuous Charge Current	80 A (4.0C)	25±2℃
Max. Continuous Discharge Current	100 A (5.0C)	25±2℃
Maximum Pulse Discharge Current	160 A (8.0C)	25±2℃, 50% SoC, 30s
Discharge Cut-off Voltage	2.5V - > 0℃ 2.0V - ≤ 0℃	Stop discharging once the cell voltage is outside this range regardless of whether continuous or pulse current is adopted
Operating Temperature	Charge	0~+45℃
	Discharge	-20~+55℃
Storage Temperature	Charge	25℃±2℃
	Discharge	25℃±2℃
Overtemperature protection	-20℃~55℃	If the operating temperature of the cell exceeds the safe temperature range, the cell stops charging and discharging.
Weight	< 510g	approximately
Cycles Test	Under the temperature of 25±2℃, charge the battery under the current of 1C, when the voltage reaches to 3.65V changes to constant voltage charge until the current tapers to 0.05C, then stop charging and rests for 20min, then discharge with 1C to 2.5V. Cycle with the above mode, when 3 consecutive discharge capacity < 80% the nominal capacity, stop cycling. The cycle life is required≥2000 times.	20A/20A - 1C/1C ≥2000 times 25±2℃, 2.0-3.65V

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TECHNICAL DRAWINGS

Item	Dimensios
Height - H	130±1 mm
Height - H1	145±1mm
Height - H2	15±1mm
Width - W	70±1 mm
Width - W1	38±1 mm
Thickness - T	27±1mm
Terminal	M6

