

Model: Power-Xtra PX18650-25P - 3.7V 2500 mAh Li-ion Battery - 12C - 30A

Stock Code: 900.600.503.343

TECHNICAL INFORMATION

Item	Specifications	Conditions	
Nominal Voltage	3.7±0.05V	0.2C Discharge	
Charging	Method	CC-CV	
	Voltage	4.20±0.05V	
Discharge Cut-off Voltage	2.5V		
Typ. Capacity	2580 mAh	0.2C(500mA), CC to 2.5V	
Minimum Capacity	2500 mAh		
Internal Impedance	≤18mΩ	AC 1kHz	
Standard Charge Current	1250 mA (0.5C)	0.5C(1250mA), CC-CV to 4.2V, 0.05C(125mA) cut off	
Rate Charge Current	4000 mA (0.5C)	4A, CC-CV to 4.2V, 100mA cut off	
Standard Discharge Current	500 mA (0.2C)	0.2C(500mA), CC to 2.5V	
Max. Continuous Discharge Current	20000 mA (8.0C)	Without cut-off temperature	
	30000 mA (12.0C)	Cut-off temperature: 80°C	
Operating Temperature (Charge)	Temperature	Max. Continuous Charge Current	
	0°C ≤ T ≤ 10°C	2500mA / 2.5A	
	10°C < T ≤ 50 °C	4000mA / 4A	
Operating Temperature (Discharge)	Temperature	Max. Continuous Discharge Current	
	-20°C ≤ T ≤ 80°C	Over temperature protection ≤ 75°C, and re-discharge temperature < 60°C	
Storage Temperature	Storage	One month : -20°C ~ 50°C	30% SOC, recovery ratio ≥ 80%
		Three months : -20°C ~ 45°C	
		One year : -20°C ~ 25°C	
Weight	45.4 ± 1.0g	approximately	

POWER-XTRA

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Cycles Test 1C Charge / 1C Discharge (25 ± 2°C.)	Fully charge as 2500 mA, CC-CV to 4.2V, 50 mA cut off, rest for 10 min, and discharge with the current of 2.5A to 2.5V and then rest for 10 min. Repeat cycling till discharge capacity in 2 successive cycles is less than 1900mAh. (25 ± 2°C.)	≥ 1000 Cycles
Cycles Test 1C Charge / 1C Discharge (47 ± 2°C.)	Fully charge as 2500 mA, CC-CV to 4.2V, 50 mA cut off, rest for 10 min, and discharge with the current of 2.5A to 2.5V and then rest for 10 min. Repeat cycling till discharge capacity in 2 successive cycles is less than 1900mAh. (25 ± 2°C.)	≥ 750 Cycles
Cycles Test 1C Charge / 1C Discharge (0 ± 2°C.)	Fully charge as 2500 mA, CC-CV to 4.2V, 50 mA cut off, rest for 10 min, and discharge with the current of 2.5A to 2.5V and then rest for 10 min. Repeat cycling till discharge capacity in 2 successive cycles is less than 1900mAh. (0 ± 2°C.)	≥ 500 Cycles
Cycles Test 4A Charge / 20A Discharge (25 ± 2°C.)	Fully charge as 4000 mA, CC-CV to 4.2V, 100 mA cut off, rest for 30 min, and discharge with the current of 20A to 2.5V and then rest for 45 min. Repeat cycling till discharge capacity in 2 successive cycles is less than 1500mAh. (25 ± 2°C.)	≥ 500 Cycles

