

Model: Power-Xtra PX10133203 - 3.2V 30Ah -Pouch Cell

Stock Code: 900.869.503.311

TECHNICAL INFORMATION

Item	Specifications	Conditions
Nominal Voltage	3.2±0.05V	Mean Operation Voltage
Charging	Method	CC-CV
	Voltage	4.20±0.05V
Typ. Capacity	30 Ah	0.33C Standard discharge
Charge Voltage	3.65±0.03V	By standard charge method
Standard charging method	0.33C constant current,3.65V constant voltage charge to 3.65V,continue charging till current deadline to≤0.05C (25±3°C)	
Standard discharging method	0.33C constant current discharge to 2.5V (25±3°C)	
Cell Internal Impedance	≤1.5mΩ	Internal resistance measured at AC 1KHZ after 50% charge
Weight	0.570±0.020Kg	
Method of making sets	Voltage gap: ≤20mV	Charge quantity: 3.3% after 6 days aging at natural temperature
	Internal resistance gap: ≤0.3mΩ	
	Capacity gap: ≤600mAh	
Standard voltage decline	≤0.07mV/h	
Single Cell Charge Current - 25°C	Max Continuous Charge Current	1.0C
Single Cell Discharge Current - 25°C	Max Continuous Discharge Current	1.0C
	Max Peak (50%SOC, 30s)	2.0C
Module Charge Current - 25°C	Max Continuous Charge Current	0.5C
	Max Peak (50%SOC, 10s)	1.0C
Module Discharge Current	Max Continuous Discharge Current	1.0C
	Max Peak (50%SOC, 10s)	1.5C

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Single Cell Operation Temperature and relative humidity Range	Charge 60±25%R.H.	0~10℃	≤0.1C	High/low temperature environment reduce battery charge efficiency and influence battery life. Long time working under 60 °C environment will lead to battery abnormal
		11~15℃	≤0.3C	
		16~20℃	≤0.5C	
		21~35℃	≤1.0C	
		36~40℃	≤0.8C	
		41~45℃	≤0.5C	
	Discharge 60±25%R.H.	-10~60℃		
Storage temperature for a long time	-20~25℃≤6 个月			Do not storage exceed half year. Must charge once when storage for half year. Must charge the battery which with protect Circuit when storage for three months. (under normal storage conditions for long periods required storage capacity can lead to decay and fall of the life cycle,such as Environmental requirements exceeded the storage capacity will be further exacerbated decline and decay cycle life)
	-20~25℃≤Six months			
	-20~45℃≤一个月			
	-20~45℃≤one month			
Rated Capacity at 0.33C(Min.)	After standard charge,the capacity shall be measured on 0.33C discharge till the voltage discharge to 2.5V,			≥30Ah
Cycle Life RT	Charging and discharging battery as blew conditions 0.33C charge to 3.65V end-off 0.5C discharge to 2.5V cut-off Continuous charge and discharge for 3500 cycles,the capacity will be measure after the 3500th cycle, ambient temperature 20~25℃			≥80% of initial capacity for 3500 cycles

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Dimension Details

Item	Description	Dimension
1	Thickness	10.7±0.5 mm
2	Width	133.0±1.0 mm
3	Length	203.0±1.0 mm
4	L1	61.0±1.5 mm
5	L2	18.0±1.0 mm
6	L3	38.0±0.3 mm

Technical Drawing

