

Product Specification

Name :	Power-Xtra Ni-Cd Battery			
Model:	PX-KSC1800-1.2V			
Stock Code:	900.600.503.164			
Author:				
Review:				
Approval:				
Date:				



Model : Power-Xtra 1.2V Ni-Cd SC 1800 Mah Rechargeable Battery (Paper/Flat) Ver: A6

NO:900.600.503.164

1、 APPLICATION

Model : Ni-Cd PX-KSC1800-1.2V Cell Size : SC (φ23.0^{-1.0}×43.0^{-1.5})

2、 DATA OF STACK UP BATTERIES

All data involves voltage and weight to stack-up battery are equal to the value of unit cell times the number of unit cell which consisted in the stack-up batteries

Example:

Stack-up battery consisting three unit cells Nominal voltage of unit cell=1.2V

Nominal voltage of stack-up batteries=1.2V×3=3.6V

3、 RATINGS

Description	Unit	Specification		Conditions	
Nominal Voltage	v	1.2			
Nominal Capacity	mA h	1800		Standard Charge/Discharge	
Standard Charge	mA	180(0.1C)		Ambient Temperature:	
	Hour	16		Ta= 20±5°C	
Trickle Charge		(0.03C)~(0.05C)		Ta = 0~45°C	
Standard discharge	mA	360(0.2C)		Ambient Temperature: Ta = $20\pm5^{\circ}$ C Humidity: Max : 85%	
Discharge Cut-off Voltage	V	1.0			
Operating temperature	°C	0~45°C		Humidity: Max : 85%	
	°C	-20~35℃	一年	Fully charged state、Humidity、Max.60%	
Storage lemperature		0~60°C	一周	Fully charged state、Humidity、Max.80%	
Typical Weight	g	Approx. 43.5g			



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4 PERFORMANCE

Unless otherwise stated, tests should be done within one month of delivery under the following conditions

Ambient Temperature, T: 20±5°C

Test	Unit	Specification	Other Condition	Remarks
Capacity	mA h	≥1800	Standard Charge Discharge	up to 3 cycles are allowed
Open Circuit Voltage(OCV	v	≥1.25	Within I hour after standard Charge	
Internal Impedance	mΩ/ Cell	≤25	Upon fully charge(I K Hz)/	
High Rate Discharge(0.5C)	minute	≥96	Standard Charge, I hour rest Before Discharge by 0.5C to 1.0 V	up to 3 cycles are allowed
Overcharge		No leakage nor explosion	0.1C Charge14 days	
Charge mA h ≥143 Retention		≥1430(65%)	Standard Charge, Storage:7 day rest at 45°C Ambient Temperature, Standard Discharge	
IEC Cycle Life	Cycle Life Cycle ≥500		IEC61951-1(2003)7.4.1.1	(see Note 4)
Leakage Test		No leakage nor deformation	Fully charged at 0.5C for 2.5 hour stand for 14 days.	
Security Test	Security Test No explosion, bu t leakage or defo rmation is allowe d		Charge the cell 0.1C 16hrs, Then≤100 mΩImpedance short circuit for 1hour	Ambient Temperature: T=20±5°C
Impact Resistance		Change of voltage should be under 0.02V/ Cell Change of impedance should be under 5 mΩ/ Cell/	Charge the cell 0.1C 16hrs Then leave for 1~4hrs,check battery before/after dropped, Height 50cm Wooden board (thickness 30mm) Direction not specified,3 times.	Ambient Temperature: T=20±5°C
		Change of voltage	Charge the battery 0.10 16brs	
Vibration 0.0 Resistance of i sho		should be under 0.02V/cell, Change of impedance should be under 5 milliohm/cell/	then leave for 24hrs,check Battery before/after vibration, Amplitude 1.5mm Vibration 3000 CPM, Any direction for 60mins.	Ambient Temperature T=20±5°C

Relative Humidity: 65±20%



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5、 CONFIGURATION, DIMENSIONS AND PACKINGS

Please refer to the attached drawing.

6、 EXTERNAL APPEARANCE

The cell/battery shall be free from cracks, scars, breakage, rust, discoloration, leakage nor deformation.

7、 CAUTION

- 1) Reverse charging is not acceptable.
- 2) Charge before use. The cells/batteries are delivered in an uncharged state.
- 3) Do not charge/discharge with more than our specified current.
- 4) Do not short circuit the cell/battery Permanent damage to the cell/battery may result.
- 5) Do not incinerate or mutilate the cell/battery.
- 6) Do not solder directly to the cell/battery.
- 7) The life expectancy may be reduced if the cell/battery is subjected adverse conditions like: extreme temperature, deep cycling, excessive overcharge/ over-discharge.
- 8) Store the cell/battery uncharged in a cool dry place. Always discharge batteries before bulk storage or shipment.

Notes:

- 1) T₁: Ambient Temperature./ 环境温度
- 2) Approximate charge time from discharged state is for reference only.
- 3) We recommend cells or batteries are charged and discharged at least once every 6 months.
- 4) IEC61951-1(2003)7.4.1.1 Cycle Life:

Cycle No	Charge	Rest	Discharge		
1	0.1C×16h	None	0.25C×2h20min		
2-48	0.25C×3h10min	None	0.25C×2h20min		
49	0.25C×3h10min	None	0.25C to 1.0V/ cell		
50 0.1C×16h		1-4h	0.2C to 1.0V/ cell		
Cycles I to 50 shall be repeated until the discharge duration on any 50th Cycle becomes less than 3 h					

8、 Other

- 1) The information (subject to change without prior notice) contained in this document is for reference only and should not be used as a basis for product guarantee or warranty.
- 2) Manufacturer reserves the right to alter or amend the design, model and specification without prior notice./



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Attached Drawing



NO	NAME	SIZE	QTY	NOTE		
1	CELLS	SC1800MAH	1	Ni-CD		
2	PAPER COVERS	22.1*41.5*0.3MM	1	KRAFT PAPER		
3	SURFACR MAT	SC (¢21mm)	1	WHITE		
4					MODEL	
5					DESIGN BY	
6					CHECKER	
7					VERSION	

Image

