



# SAMXON BATTERY

LITHIUM-ION RECHARGEABLE BATTERY

2011





# CE CERTIFICATE

**CERTIFICATE**

**Anbotech**  
Product Safety

**CERTIFICATE**  
Of Conformity  
EC Council Directive 2004/108/EC  
Electromagnetic Compatibility

Registration No.: AT1101627E

Report No.: 201101607E

**Applicant**: Samxon Electronics(Dongguan) Co., Ltd.  
Xinming Industrial Area, Xingfa South Road, Wusha Village,  
Chang'an Town, Dongguan, Guangdong, China

**Product**: Lithium-ion battery

**Identification**: Model No.: 0C3400AR-800mAh, 423400A-800mAh,  
423400A-700mAh

**Trade Mark**: nanoCharge

**Rating**: 3.7V (nom)

**Test Standards**: EN 60922: 2006+A1: 2007  
EN 55024: 1998+A1: 2001+A2: 2003

The certificate of conformity is based on an evaluation of a sample of the above-mentioned product. Technical report and documentation are at the applicant's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex III of Council Directive 2004/108/EC, in its latest amended version, referred to EMC Directive. The certificate does not imply assessment of the production and does not permit the use of Lab's logo. The applicant of the certificate is authorized to use this certificate in connection with EC declaration of conformity to Article 10.5 of the Directive.

**CE** The CE Marking may only be used if all relevant and effective EC Directives are complied with **CE**

**Anbotech Compliance Laboratory Limited**  
102, 1 Building, SDC Industrial Park, No 4 Qianhai Road,  
Nanshan District, Shenzhen, 518054, China  
Tel: (86)755-29714771  
Fax: (86)755-29714772  
Email: info@anbotech.com  
http://www.anbotech.com

**Jan. 26, 2013**  
Date

**Certified by**  
Daniel Zha  
Chief Executive

QC 080000

ISO 14001

**IECQ Certificate of Hazardous Substance Process Management**  
(Applicable to the European Directive 2002 / 95 / EC ("RoHS") and other identified Hazardous Substances requirements with respect to QC 080000)

Registration Number: H551687 IECQ Issue Number: 1

of: Samxon Electronics (Dongguan) Co., Limited.

at their place of work: Xinming Industrial Area  
Xingfa South Road of Wusha  
Chang'an Town  
Dongguan  
Guangdong  
523860  
China

The above organization has developed and implemented Hazardous Substance Process Management (HSPM) procedures and related processes in compliance with all applicable requirements for HSPM organization approval in accordance with the IEC Quality Assessment System for Electronic Components (IECQ) Hazardous Substances Process Management Rules of Procedure "QC 080000" with respect to QC 080000.

The above organization has been assessed for the following scope of activity:  
**Design and Manufacture**  
of:  
**Aluminum Electrolytic Capacitors**

Signed on behalf of BSI: [Signature]  
IECQ Certification Body

Date of Issue: 26<sup>th</sup> July 2009

Date of Expiry: 25<sup>th</sup> July 2012

This certificate remains the property of the British Standards Institution and may be suspended or withdrawn or annulled at the discretion of the British Standards Institution (BSI) in accordance with BS 9000 Part 5.  
This certificate shall be retained by the British Standards Institution indefinitely upon request.  
Tel: +44 (0) 8459 100000 to check the validity of this certificate  
BSI, International House, 389 Chiswick Road, Uxbridge, Middlesex, HP8 4ND, UK

**BSI**

**Certificate of Registration**

**ENVIRONMENTAL MANAGEMENT SYSTEM - ISO 14001:2004**

This is to certify that:  
Samxon Electronics (Dongguan) Co., Ltd.  
Xinming Industrial Area  
Xingfa South Road of Wusha  
Chang'an Town  
Dongguan  
Guangdong  
523860  
China

of: 万德三电子(东莞)有限公司  
中国  
广东省  
东莞市  
长安镇  
马沙村五洲路  
黄屋工业区  
邮编: 523860

Holds Certificate No: EMS 00001  
and operates an Environmental Management System which complies with the requirements of ISO 14001:2004 for the following scope:  
The design and manufacture of aluminum electrolytic capacitors.  
铝电解电容器的设计与制造。

For and on behalf of BSI:  
[Signature]  
Managing Director, BSI (China), Liu Mo Yuan

Originally registered: 1981/2005 Latest Issue: 18/04/2009 Expiry Date: 09/08/2012

**BSI** **ANAB**

Page: 1 of 1

This certificate is issued electronically and remains the property of BSI and is bound by the conditions of contract for electronic certificates and may be suspended or withdrawn or annulled at the discretion of BSI in accordance with BS 9000 Part 5.  
Further information regarding the scope of this certificate and the validity of the ISO 14001:2004 requirements may be obtained by contacting the organization.  
This certificate is valid only if printed original document also in compliance with.  
Original Registration: Floor 10 East Tower Center, No. 204 Jiaojiaomai Road, Beijing 100004, P. R. China  
BSI (China) is a subsidiary of BSI Group Limited, London.

**BSI**

ACCREDITED



# Contents

P.2 ..... Lithium-ion Rechargeable Battery

P.3 ..... Application Guidelines

P.7 ..... Part Number System

P.8 ..... Aluminum Prismatic Battery

P.11 ..... Power Prismatic Battery





# SAMXON BATTERY

## Lithium-ion Rechargeable Battery

### Features and Benefits

- Application specific designs
- Customized form factors to meet most requirements
- High capacity and longer life time
- Series configurations for higher voltages
- Complete system solutions

### Application Types

- Main power
- Back up power
- Automotive

### Application Segments

- Mobile phone
- Digital camera/video
- PDA, MD, MP3/MP4
- Notebook
- Power tools
- E-Bike
- Electric vehicle



# Application Guidelines

---

This document provides basic guidelines for application development using Lithium-ion Rechargeable Battery. If questions arise during your development process and are not answered in this document, please contact us.

## Life Time

Lithium-ion Rechargeable Battery has a longer life time than Ni-MH battery and Ni-Cd battery, but their life time is not infinite. The actual end-of-life criteria are dependent on the application requirements. Prolonged exposure to elevated temperatures, high applied voltage and excessive current will lead to cell's failure and decreased life time. Reducing these parameters will lengthen the life time of a battery.

## Voltage

Lithium-ion Rechargeable Battery is rated with a nominal recommended working or applied voltage. The values provided are set for long life at their maximum rated temperature. If the applied voltage exceeds this recommended voltage, the result will be reduced life time. If the voltage is excessive for a pro-longed time period, gas generation will occur inside the Lithium-ion Rechargeable Battery and may result in drum shell. Short-term over-charge can usually not be tolerated by the Lithium-ion Rechargeable Battery.

## Polarity

Lithium-ion Rechargeable Battery are designed with different electrodes, meaning they are thoroughly different in composition. When a Lithium-ion Rechargeable Battery is first assembled, cathode electrode and anode electrode should be designated. Once the Lithium-ion Rechargeable Battery is charged for the first time during the 100% QA testing operation, the cathode electrode has a chemical change in structure. Short-circuit and reverse polarity are not permitted at any time.

Note: The time of charging battery is needed to keep strictly according to product specification. If reversed charged after prolonged charging in one direction, the life of the Lithium-ion Rechargeable Battery may be shortened.

## Ambient Temperature

The standard temperature rating is -25°C to +60°C for use of Lithium-ion Rechargeable Battery. Temperature in combination with voltage can affect the life time of a Lithium-ion Rechargeable Battery. As a result, it is recommended to use the Lithium-ion Rechargeable Battery at the room temperature. At temperature lower than normal room temperature, it is possible to apply impedances slightly higher than the recommended working impedance without significant increase in degradation and reduction in life time. Increasing to higher temperatures is a result of permanent degradation / electrolyte decomposition inside the Lithium-ion Rechargeable Battery.



# Application Guidelines

## Discharge Characteristics

Lithium-ion Rechargeable Battery discharge with a platform voltage curve. When determining the battery requirements for an application, it is important to consider different discharge current rate. In high current discharge applications, the temperature of battery is more critical. In normal current, Lithium-ion Rechargeable Battery can conventionally be used. The normal discharge rate is 0.5C (when the rated capacity of battery is 1Ah, 1C discharge rate indicates the discharge current is 1A, 2C discharge rate indicates the discharge current is 2A, etc.). The maximum recommended charge current is 1C. For power cell, the normal discharge rate is 5C, 10C or 15C etc. Discharge time of battery is based on battery capacity and discharge current.

## Charge Characteristics

Lithium-ion Rechargeable Battery can be charged using various methods including constant current and constant voltage. Usually, Lithium-ion Rechargeable Battery should be charge with constant current firstly and then with constant voltage. The voltage of battery will increase when charging with constant current and the current will decrease when charging with constant voltage. The maximum recommended charge current is 1C except of power cell (when the rated capacity of battery is 1Ah, 1C charge rate indicates the discharge current is 1A, 2C charge rate indicates the charge current is 2A, etc.). Overheating of the Lithium-ion Rechargeable Battery can occur from continuous overcorrect or over-voltage charging. Overheating can lead to gas generation, decreased life time, leakage, venting or rupture. Contact the factory if you plan to use a higher charge current or higher voltage than specified. And the standard charge temperature rating is 0°C to 45°C.

## Storage Characteristics

Lithium-ion Rechargeable Battery has a different residual capacity and recoverable capacity with different time storage. The residual capacity is the capacity we get by discharging the battery to the end voltage directly after storage. The recoverable capacity is the capacity we get by charging the battery to the end voltage with constant current and constant voltage firstly after storage, and then discharging the battery to the end voltage. The residual capacity is in connection with storage temperature and storage time. Usually, the residual capacity is just 90% of initial capacity after half year storage at room temperature, but just 80% of initial capacity after one month storage at 60°C. That is to say, storing the Lithium-ion Rechargeable Battery at room temperature or lower temperature is a good choice. The standard temperature rating is -20°C to +35°C for the storage of Lithium-ion Rechargeable Battery. The better state of charge of Lithium-ion Rechargeable Battery is 30%~50%.

Do not store Lithium-ion Rechargeable Battery in any of the following environments:

- High temperature and / or high humidity
- Direct contact with water, salt water, oil or other chemicals
- Direct contact with corrosive materials, acids, alkalis, or toxic gases
- Direct exposure to sunlight
- Dusty environment
- Environment subject to excessive shock and / or vibration



# Application Guidelines

## Series Configurations of Lithium-ion Rechargeable Battery

Individual Lithium-ion Rechargeable Battery is limited to 3.2V or 3.7V. As many applications require higher voltages, Lithium-ion Rechargeable Battery can be configured in series to increase the working voltage. It is important to ensure that the individual voltages of any single Lithium-ion Rechargeable Battery do not exceed its maximum recommended working voltage as this could result in electrolyte decomposition, gas generation, impedance increase and reduced life time. Battery voltage imbalance is caused, during charge and discharge, by differences in initial capacity value and, in steady state, by differences in self discharge rate.

## Reflow Soldering

Do not use reflow soldering on Lithium-ion Rechargeable Battery using infrared or convection oven heating methods unless the Lithium-ion Rechargeable Battery is specifically rated to withstand reflow soldering temperature.

## Circuit Board Design

Do not design exposed circuit board runs under the Lithium-ion Rechargeable Battery. An electrical short could occur if the Lithium-ion Rechargeable Battery electrolyte leaked onto the circuit board.

## Circuit Board Cleaning

Avoid cleaning of circuit boards, however if the circuit board must be cleaned use static or ultrasonic immersion in a standard circuit board cleaning fluid for no more than 5 minutes and a maximum temperature of 60°C. Afterwards thoroughly rinse and dry the circuit boards. In general, treat Lithium-ion Rechargeable Battery in the same manner you would an aluminum electrolytic capacitor.

## Transportation Information

Lithium-ion Rechargeable Battery are non-regulated by the US DOT (Department of Transport) and IATA. The correct inter-national shipping description is "Electronic Parts - Battery".



# Application Guidelines

---

## Cautions in handling the Lithium-ion Rechargeable Battery

To prevent the possibility of the battery from leaking, heating, explosion, please observe the following precautions:

- Don't immerse the battery in water.
- Don't use and leave the battery near a heat source such as fire or heater.
- When charging, use a battery charger specifically for that purpose.
- Don't reverse the positive and negative terminals.
- Don't connect the battery to an electrical outlet directly.
- Don't discard the battery in fire or heater.
- Don't connect the positive and negative terminal directly with metal object.
- Don't transport and store the battery together with metal objects such as necklaces, hairpins.
- Don't strike, throw or trample the battery.
- Don't directly solder the battery.
- Don't pierce the battery with a nail or other sharp object.
- Don't use or leave the battery at very high temperature conditions (for example, strong direct sunlight or a vehicle in extremely hot conditions).
- Don't use it in a location where there is the possibility of a strong electrostatic discharge or strong magnetic field. This may cause the safety devices to be damaged.

## Emergency Procedures

If the battery leaks and the electrolyte get into your eyes, don't wipe eyes, instead, thoroughly rinse the eyes with clean running water for at least 15 minutes, and immediately seek medical attention. Otherwise, eyes injury can result.

In case the battery terminals get dirty, clean the terminals with a dry cloth before use. Otherwise power failure or charge failure may occur due to the poor connection with the device.

If a Lithium-ion Rechargeable Battery is found to be overheating or if you smell a sweet odor, immediately disconnect any power or load to the Lithium-ion Rechargeable Battery. Allow the Lithium-ion Rechargeable Battery to cool down, then dispose of properly. Do not expose your face or hands to an overheating Lithium-ion Rechargeable Battery. Contact the factory for a Material Safety Data Sheet if a Lithium-ion Rechargeable Battery leaks or vents.

If exposed to electrolyte:

- Skin Contact: Wash exposed area thoroughly with soap and water.
- Eye Contact: Rinse eyes with water for 15 minutes and seek medical attention.
- Ingestion: Drink milk/water and induce vomiting; seek medical attention.

## General Safety Considerations

Lithium-ion Rechargeable Battery may vent or rupture if overcharged, reverse charged, incinerated or heated above 150°C.

Do not crush, mutilate, nail penetrate or disassemble.

High case temperature (burn hazard) may result from abuse of Lithium-ion Rechargeable Battery.

### Disposal Procedures

Do not dispose of unit in trash. Dispose of according to local regulations.



# Lithium-ion Rechargeable Battery

## Features:

- Can be used as a rechargeable battery and ideal for backing up purpose.
- Capable of several hundreds or thousands of charge/discharge cycles; free from throw away disposal.
- It does not contain toxic materials such as nickel and cadmium.

## Product List:

Category	Features	Temp. Range °C		Capacity (mAh)	Rated Voltage (V)	Continuous Current (mA)	Impedance (mΩ)
		Min.	Max.				
Aluminum Prismatic Battery	High Energy, High Life Time	-20	+60	200~2000	3.7	1C	≤ 130
Power Prismatic Battery	High Capacity, High Life Time, High Power Type	-20	+60	8000 ~ 20000	3.2	1C	≤ 5

## Part Number System:

### Part 1 (For Aluminum Prismatic Battery)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
C	A	M	857			423752			S	L			
Cell	Cell Type	Usage	Capacity			Cell Size			Cell Shape	Side Shape			
Type	Code	Usage	Code	Capacity (mAh)	Code	Thickness (mm)	Width (mm)	Height (mm)	Shape	Code	Shape	Code	
Aluminum Prismatic	A	Mobile	M	850	857	10	30	36	Square	S	Right Angle	L	
Power Prismatic	E	Notebook	N	1050	1K7	42	34	48	Round	R	Round Angle	R	
Cylindrical	S	Vehicle	V	1350	1C7	55	36	50					
Polymer	P			1550	1E7	65	37	52					
				1750	1G7	75	44	60					
				12500	1B8	91	50	70					
				19500	1J8								

### Part 2 (For Power Prismatic Battery)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	E	V	800			7	70095195							
Cell	Cell Type	Usage	Capacity			Capa. Grade	Cell Size							
Type	Code	Usage	Code	Grade	Capacity (mAh)	Thickness (mm)	Code	Width (mm)	Code	Height (mm)	Code			
Aluminum Prismatic	A	Mobile	M	6	Capa.x1	7.0	70	95	095	195	195			
Power Prismatic	E	Notebook	N	7	Capa.x10	7.5	75							
Cylindrical	S	Vehicle	V	8	Capa.x100	15.0	15							
Polymer	P			9	Capa.x1000									



# Aluminum Prismatic Battery

## Product Range

Charge Temp.: 0~+45°C

Discharge Temp.: -20~+60°C

Store Temp.: -20~+35°C

Model No.	Rated Voltage (V)	Capacity (mAh)	Cell Dimension (mm)			Impedance (mΩ)	Side Shape
			Thickness <sup>+0.3</sup> <sub>-0</sub>	Width <sup>+0</sup> <sub>-0.5</sub>	Height <sup>+0</sup> <sub>-0.5</sub>		
CAM307403048SL	3.7	300	4.0	30	48	70↓	
CAM407403048SL	3.7	400	4.0	30	48	70↓	
CAM507403048SL	3.7	500	4.0	30	48	60↓	
CAM557403048SL	3.7	550	4.0	30	48	60↓	
CAM607403048SL	3.7	600	4.0	30	48	60↓	
CAM607403443SL	3.7	600	4.0	34	43	60↓	
CAM607403443SL	3.7	600	4.0	34	43	60↓	
CAM607403443SR	3.7	600	4.0	34	43	60↓	R
CAM627403443SL	3.7	620	4.0	34	43	60↓	
CAM607403450SL	3.7	600	4.0	34	50	60↓	
CAM657403450SL	3.7	650	4.0	34	50	60↓	
CAM707403450SL	3.7	700	4.0	34	50	60↓	
CAM707403750SL	3.7	700	4.0	37	50	60↓	
CAM987404057SL	3.7	980	4.0	40	57	60↓	
CAM757413450SL	3.7	750	4.1	34	50	60↓	
CAM707413450SL	3.7	700	4.1	34	50	60↓	
CAM657413450SL	3.7	650	4.1	34	50	60↓	
CAM607423048SL	3.7	600	4.2	30	48	60↓	
CAM657423048SL	3.7	650	4.2	30	48	60↓	
CAM857423752SL	3.7	850	4.2	37	52	60↓	
CAM957423855SL	3.7	950	4.2	38	55	60↓	
CAM118434255SL	3.7	1100	4.3	42	55	60↓	
CAM607443442SL	3.7	600	4.4	34	42	60↓	
CAM707443446SL	3.7	700	4.4	34	46	60↓	
CAM807443450SL	3.7	800	4.4	34	50	60↓	
CAM707443845SL	3.7	700	4.4	38	45	60↓	
CAM507453040SL	3.7	500	4.5	30	40	70↓	
CAM707453048SL	3.7	700	4.5	30	48	60↓	
CAM757453448SL	3.7	750	4.5	34	48	60↓	
CAM757453450SL	3.7	750	4.5	34	50	60↓	
CAM807453450SL	3.7	800	4.5	34	50	60↓	
CAM827453450SL	3.7	820	4.5	34	50	60↓	
CAM857453450SR	3.7	850	4.5	34	50	60↓	R
CAM907463850SR	3.7	900	4.6	38	50	60↓	R
CAM757464040SR	3.7	750	4.6	40	40	60↓	R
CAM657473442SR	3.7	650	4.7	34	42	60↓	R
CAM707473442SR	3.7	700	4.7	34	42	60↓	R

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and use.

Should a safety concern arise regarding this product, please be sure to contact us immediately.



# Aluminum Prismatic Battery

Model No.	Rated Voltage (V)	Capacity (mAh)	Cell Dimension (mm)			Impedance (mΩ)	Side Shape
			Thickness <sup>+0.3</sup> <sub>-0</sub>	Width <sup>+0</sup> <sub>-0.5</sub>	Height <sup>+0</sup> <sub>-0.5</sub>		
CAM787473446SR	3.7	780	4.7	34	46	60↓	R
CAM857473845SL	3.7	850	4.7	38	45	60↓	
CAM957473850SL	3.7	950	4.7	38	50	60↓	
CAM108484050SR	3.7	1000	4.8	40	50	60↓	R
CAM108484050SL	3.7	1000	4.8	40	50	60↓	
CAM1K8484050SL	3.7	1050	4.8	40	50	60↓	
CAM907494047SL	3.7	900	4.9	40	47	60↓	
CAM987494047SR	3.7	980	4.9	40	47	60↓	R
CAM607503040SL	3.7	600	5.0	30	40	70↓	
CAM657503043SL	3.7	650	5.0	30	43	60↓	
CAM757503048SL	3.7	750	5.0	30	48	60↓	
CAM807503445SL	3.7	800	5.0	34	45	60↓	
CAM757503445SL	3.7	750	5.0	34	45	60↓	
CAM857503448SL	3.7	850	5.0	34	48	60↓	
CAM857503450SR	3.7	850	5.0	34	50	60↓	R
CAM907503450SR	3.7	900	5.0	34	50	60↓	R
CAM957503450SL	3.7	950	5.0	34	50	60↓	
CAM957503450SR	3.7	950	5.0	34	50	60↓	R
CAM128503760SL	3.7	1200	5.0	37	60	60↓	
CAM1C8505051SL	3.7	1350	5.0	50	51	60↓	
CAM627513040SL	3.7	620	5.1	30	40	60↓	
CAM118514447SL	3.7	1100	5.1	44	47	60↓	
CAM138514455SL	3.7	1300	5.1	44	55	60↓	
CAM158514461SR	3.7	1500	5.1	44	61	60↓	R
CAM807523442SR	3.7	800	5.2	34	42	60↓	R
CAM108523450SL	3.7	1000	5.2	34	50	60↓	
CAM657533040SL	3.7	650	5.3	30	40	60↓	
CAM128544050SL	3.7	1200	5.4	40	50	60↓	
CAM118553450SL	3.7	1000	5.5	34	50	60↓	
CAM807564036SL	3.7	800	5.6	40	36	70↓	
CAM857583640SL	3.7	850	5.8	36	40	60↓	
CAM108584041SL	3.7	1000	5.8	40	41	60↓	
CAM857603048SL	3.7	850	6.0	30	48	60↓	
CAM907603048SL	3.7	900	6.0	30	48	60↓	
CAM957603048SL	3.7	950	6.0	30	48	60↓	
CAM707603036SL	3.7	700	6.0	34	36	60↓	
CAM1K7603448SL	3.7	1050	6.0	34	48	60↓	
CAM107603448SL	3.7	1000	6.0	34	48	60↓	
CAM108603450SR	3.7	1000	6.0	34	50	60↓	R
CAM1K7603450SR	3.7	1050	6.0	34	50	60↓	R
CAM118603450SR	3.7	1100	6.0	34	50	60↓	R
CAM1B8603455SL	3.7	1250	6.0	34	55	60↓	R

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and use.

Should a safety concern arise regarding this product, please be sure to contact us immediately.



# Aluminum Prismatic Battery

Model No.	Rated Voltage (V)	Capacity (mAh)	Cell Dimension (mm)			Impedance (mΩ)	Side Shape
			Thickness <sup>+0.3</sup> <sub>-0</sub>	Width <sup>+0</sup> <sub>-0.5</sub>	Height <sup>+0</sup> <sub>-0.5</sub>		
CAM158603465SL	3.7	1500	6.0	34	65	60↓	
CAM148603465SL	3.7	1400	6.0	34	65	60↓	
CAM148603856SL	3.7	1400	6.0	38	56	60↓	
CAM158614450SL	3.7	1500	6.1	44	50	60↓	
CAM188614460SL	3.7	1800	6.1	44	60	60↓	
CAM907623440SL	3.7	900	6.2	34	40	60↓	
CAM1C7623655SL	3.7	1350	6.2	36	55	60↓	
CAM168624057SL	3.7	1600	6.2	40	57	60↓	
CAM1E7624057SL	3.7	1550	6.2	40	57	60↓	
CAM168633763SL	3.7	1600	6.3	37	63	60↓	
CAM108643443SL	3.7	1000	6.4	34	43	60↓	
CAM907643443SL	3.7	900	6.4	34	43	60↓	
CAM128643450SL	3.7	1200	6.4	34	50	60↓	
CAM108643450SL	3.7	1000	6.4	34	50	60↓	
CAM178643470SL	3.7	1700	6.4	34	70	60↓	
CAM108654136SR	3.7	1000	6.5	41	36	60↓	R
CAM907654136SR	3.7	900	6.5	41	36	60↓	R
CAM168663760SL	3.7	1600	6.6	37	60	60↓	
CAM158663760SL	3.7	1500	6.6	37	60	60↓	
CAM148663760SL	3.7	1400	6.6	37	60	60↓	
CAM188663770SL	3.7	1800	6.6	37	70	60↓	
CAM1G7663770SL	3.7	1750	6.6	37	70	60↓	
CAM178663770SL	3.7	1700	6.6	37	70	60↓	
CAM168663770SL	3.7	1600	6.6	37	70	60↓	
CAM118684040SL	3.7	1100	6.8	40	40	60↓	
CAM158684050SL	3.7	1500	6.8	40	50	60↓	
CAM148684050SL	3.7	1400	6.5	40	50	60↓	
CAM168684458SL	3.7	1600	6.8	44	58	60↓	
CAM188684460SL	3.7	1800	6.8	44	60	60↓	
CAM178703465SL	3.7	1700	7.0	34	65	60↓	
CAM128703448SL	3.7	1200	7.0	34	48	60↓	
CAM148704048SL	3.7	1400	7.0	40	48	60↓	
CAM188704260SL	3.7	1800	7.0	42	60	60↓	
CAM188704260SL	3.7	1800	7.0	42	60	60↓	
CAM138723448SL	3.7	1300	7.2	34	48	60↓	
CAM188723860SL	3.7	1800	7.2	38	60	60↓	
CAM178723860SL	3.7	1700	7.2	38	60	60↓	
CAM118753048SL	3.7	1100	7.5	30	48	60↓	
CAM108753048SL	3.7	1000	7.5	30	48	60↓	
CAM128763448SL	3.7	1200	7.6	34	48	60↓	
CAM138763448SL	3.7	1300	7.6	34	48	60↓	
CAM128783640SR	3.7	1200	7.8	36	40	60↓	R

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and use.

Should a safety concern arise regarding this product, please be sure to contact us immediately.



## Aluminum Prismatic Battery

Model No.	Rated Voltage (V)	Capacity (mAh)	Cell Dimension (mm)			Impedance (mΩ)	Side Shape
			Thickness <sup>+0.3</sup> <sub>-0</sub>	Width <sup>+0</sup> <sub>-0.5</sub>	Height <sup>+0</sup> <sub>-0.5</sub>		
CAM148803448SL	3.7	1400	8.0	34	48	60↓	
CAM138803448SL	3.7	1300	8.0	34	48	60↓	
CAM158803450SR	3.7	1500	8.0	34	50	60↓	R
CAM1E7823450SL	3.7	1550	8.2	34	50	60↓	
CAM168843450SL	3.7	1600	8.4	34	50	60↓	
CAM178914050SL	3.7	1700	9.1	40	50	60↓	
CAM208914050SL	3.7	2000	9.1	40	50	60↓	
CAM168103450SR	3.7	1600	10.0	34	42	60↓	R
CAM158103447SR	3.7	1500	10.0	34	47	60↓	R
CAM168103448SL	3.7	1600	10.0	34	48	60↓	
CAM168103450SL	3.7	1600	10.0	34	50	60↓	
CAM188103450SL	3.7	1800	10.0	34	50	60↓	
CAM198103450SL	3.7	1900	10.0	34	50	60↓	
CAM1J8103450SL	3.7	1950	10.0	34	50	60↓	

## Power Prismatic Battery

### Product Range

Charge Temp.: 0~+45°C

Discharge Temp.: -20~+60°C

Store Temp.: -20~+35°C

Model No.	Rated Voltage (V)	Capacity (Ah)	Size Code	Cell Dimension (mm)			Impedance (mΩ)	Weight (g)
				Thickness <sup>+0</sup> <sub>-0.3</sub>	Width <sup>+0</sup> <sub>-0.5</sub>	Height <sup>+0</sup> <sub>-0.5</sub>		
CPV800770095195	3.2	8	70095195	7.0	95.0	195.0	10↓	≤ 250
CPV100875095195	3.2	10	75095195	7.5	95.0	195.0	10↓	≤ 310
CPV200815095195	3.2	20	15095195	15.0	95.0	195.0	5↓	≤ 620

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and use.  
Should a safety concern arise regarding this product, please be sure to contact us immediately.







## 總公司

### 香港

萬裕電子有限公司  
香港柴灣嘉業街10號益高工業大廈16字樓  
電話: (852) 2897 5277  
傳真: (852) 2558 6299

## HEAD OFFICE

### HONG KONG

Man Yue Electronics Co., Ltd.  
16/F., Yiko Industrial Building, 10 Ka Yip Street, Chai Wan, Hong Kong  
TEL: (852) 2897 5277  
FAX: (852) 2558 6299

## 分公司

### 中國深圳

萬晉電子(深圳)有限公司  
中國廣東省深圳市羅湖區  
寶安南路2014號振業大廈B座916房  
郵政編號: 518000  
電話: 86 (755) 2586 2216  
傳真: 86 (755) 2586 2239

## BRANCH OFFICE

### SHENZHEN, CHINA

Man Jin Electronics (Shenzhen) Co., Ltd.  
Rm 916B, 9/F., 2014 Baoan South Road, Zhenye Tower,  
Luohu, Shenzhen City, Guangdong Province, PR China  
Postcode: 518000  
TEL: 86 (755) 2586 2216  
FAX: 86 (755) 2586 2239

### 中國上海

萬發國際貿易(上海)有限公司  
中國江蘇省無錫市  
錫山經濟開發區春暉路東路148號  
郵政編號: 214000  
電話: 86 (510) 8866 2688  
傳真: 86 (510) 8865 2933

### SHANGHAI, CHINA

Man Fat International Trading (Shanghai) Co., Ltd.  
148 Chunhui East Road, Dong Ting Town,  
Xishan Economic Development Zone, Wuxi, Jiangsu Province, PR China  
Postcode: 214000  
TEL: 86 (510) 8866 2688  
FAX: 86 (510) 8865 2933

中國上海市徐匯區天鑰橋路567號森本大樓203室  
郵政編號: 200030  
電話: 86 (021) 6487 9224  
傳真: 86 (021) 6487 9034

Room 203, Senben Plaza, 567 Tianyaoqiao Road, Shanghai, PR China  
Postcode: 200030  
TEL: 86 (021) 6487 9224  
FAX: 86 (021) 6487 9034

### 中國廈門

中國福建省廈門市湖裡區華嘉路26之6號  
郵政編號: 361006  
電話: 86 (592) 568 1066  
傳真: 86 (592) 568 1055

### XIAMEN, CHINA

No. 6, No. 26 Huajia Road, Huli District, Xiamen, Fujian, PR China  
Postcode: 361006  
TEL: 86 (592) 568 1066  
FAX: 86 (592) 568 1055

### 中國煙臺

中國山東省煙臺開發區銀芝小區19號樓3單元路16號  
郵政編號: 264006  
電話: 86 (150) 6575 3121

### YANTAI, CHINA

Room 16, Unit 3, 19th Yinzhi District, Yantai Development Zone, PR China  
Postcode: 264006  
TEL: 86 (150) 6575 3121

### 臺灣

萬裕國際電子有限公司  
臺灣新北市23553中和區連城路258號13樓之1  
郵政編號: 235  
電話: 886 (02) 8227 2227  
傳真: 886 (02) 8227 2226

### TAIWAN

Man Yue International Electronics Ltd.  
13F-1, No.258, Liancheng Road, Zhonghe District, New Taipei City,  
Taiwan 23553, R.O.C.  
Postcode: 235  
TEL: 886 (02) 8227 2227  
FAX: 886 (02) 8227 2226

### 馬來西亞

Man Yue Electronics Co., Ltd.  
Unit No. 632 Block A, Kelana Centre Point, No.3 Jalan SS 7/19 Kelana Jaya,  
47301 Petaling Jaya, Selangor Darul Ehsan, Malaysia  
郵政編號: 47301  
電話: 60 (3) 7804 2701  
傳真: 60 (3) 7804 2706

### MALAYSIA

Man Yue Electronics Co., Ltd.  
Unit No. 632 Block A, Kelana Centre Point, No.3 Jalan SS 7/19 Kelana Jaya,  
47301 Petaling Jaya, Selangor Darul Ehsan, Malaysia  
Postcode: 47301  
TEL: 60 (3) 7804 2701  
FAX: 60 (3) 7804 2706

### 美國

Samxon Electronic Components LLC.  
3005 Ironside Court, San Jose, CA 95132, USA  
電話: 1 (408) 956 9738

### USA

Samxon Electronic Components LLC.  
3005 Ironside Court, San Jose, CA 95132, USA  
TEL: 1 (408) 956 9738

## 中國廠址

### 東莞

萬裕三信電子(東莞)有限公司  
中國廣東省東莞市長安鎮烏沙村興發南路新星工業園  
郵政編號: 523857  
電話: 86 (769) 8228 6000 / 8532 3339  
傳真: 86 (769) 8541 6401

## PRC MANUFACTURING PLANT

### DONGGUAN

Samxon Electronics (Dongguan) Co., Ltd.  
Xin Xing Industrial Area, Xing Fa South Road, Wu Sha Village,  
Chang An Town, Dongguan, Guangdong, PR China  
Postcode: 523857  
TEL: 86 (769) 8228 6000 / 8532 3339  
FAX: 86 (769) 8541 6401



