

## Li-SOCl<sub>2</sub> Battery Energy & High Power Type

### CELL CONSTRUCTIONS



### MAIN FEATURES

- Wide Temperature Range from -55°C to +85°C.
- Superior Shelf Life and Reliability: over 10 years at room temperature and self-discharge rate is less than 1% of its nominal capacity per year.
- Energy type is bobbin structure and best suit for low current discharges. It may require depassivation before medium currents can be delivered.
- High Power type is spiral structure and best suit for high current discharge for both continuous & pulse currents. It may require depassivation before medium currents can be delivered.

### APPLICATIONS

- Civil application:**
  - RAM and CMOS circuits
  - Petroleum exploration devices
  - Medical equipment
  - Burglar alarm
  - Magnetic card phone
  - Tire monitoring systems
  - TPMS equipment
  - Electronic memory device
  - Night vision device
- Military and aerospace application:**
  - Search and rescue equipment
  - GPS transceivers
  - Emergency positioning system
  - Sonar Jammer
  - Unmanned Aerial Vehicles (UAVs)
  - Smart ammunition
  - Ground sensors
  - Artillery fuses
  - Marine/oceanographic
- Intelligent instrument:**
  - Water meter
  - Electricity meter
  - Intelligent IC card gas meter
- Safety facilities:**
  - Alarms
  - Confidential cabinet
  - Sensor
  - Portable sensor monitoring devices



### Energy Type(Cylindrical)

Model	Size	Nominal Voltage (V)	Nominal Capacity (mAh)	Standard Discharge Current (mA)	Max. Discharge Current(mA)		Diameter (mm)	Height (mm)	Approx. Weight(g)
					Conts.	Pulse			
ER10250	—	3.6	400	0.5	5	10	10.2	25.7	3.8
ER10450	AAA	3.6	700	1.0	5	30	10.2	46.2	8.0
ER13150	—	3.6	450	0.5	10	30	13.0	15.0	6.0
ER13170	—	3.6	450	0.5	10	30	13.0	17.5	6.0
ER14250	1/2AA	3.6	1200	0.5	40	80	14.5	25.2	11.0
ER14335	2/3AA	3.6	1650	1.3	75	150	14.5	33.5	13.0
ER14505	AA	3.6	2400	2.0	100	200	14.5	50.5	22.0
ER17335	2/3A	3.6	2100	2.0	100	200	17.0	33.5	21.0
ER17505	A	3.6	3400	2.0	100	200	17.5	50.5	25.0
ER18505	—	3.6	4000	2.0	120	200	18.8	50.5	30.0
ER26500	C	3.6	9000	2.0	200	400	26.5	50.0	55.0
ER34615	D	3.6	19000	2.0	230	500	34.0	61.5	115.0
ER341245	DD	3.6	36000	2.0	450	1000	34.0	124.5	200.0
ER9V	—	10.8	1200	1.0	35	100	16.9 x 26.0 x 48.8		40.0

### Computer Back-up

Model	Size	Nominal Voltage (V)	Nominal Capacity (mAh)	Standard Discharge Current (mA)	Max. Discharge Current(mA)		Diameter (mm)	Height (mm)	Approx. Weight(g)
					Conts.	Pulse			
ER14250-CB	1/2AA	3.6	1200	0.5	40	80	16.7	28.5	13.0
ER14505-CB	AA	3.6	2400	2.0	100	200	16.6	54.5	26.0
ER26500-CB	C	3.6	9000	2.0	200	400	30.0 x 30.0 x 56.0		66.0

### High Power Type

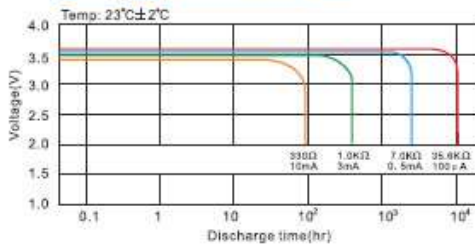
Model	Size	Nominal Voltage (V)	Nominal Capacity (mAh)	Standard Discharge Current (mA)	Max. Discharge Current(mA)		Diameter (mm)	Height (mm)	Approx. Weight(g)
					Conts.	Pulse			
ER14250M	1/2AA	3.6	750	4.0	120	250	14.5	25.2	10.0
ER14335M	2/3AA	3.6	1200	4.0	300	500	14.5	33.5	13.0
ER14505M	AA	3.6	1800	10.0	500	1000	14.5	50.5	22.0
ER17335M	2/3A	3.6	1700	10.0	500	1000	17.5	33.5	21.0
ER18505M	—	3.6	3200	10.0	1000	2000	18.8	50.5	30.0
ER26500M	C	3.6	6500	10.0	1000	2000	26.2	50.0	53.0
ER34615M	D	3.6	14000	10.0	2000	3000	34.0	61.5	118.0

**ELECTRICAL PERFORMANCE CURVE**

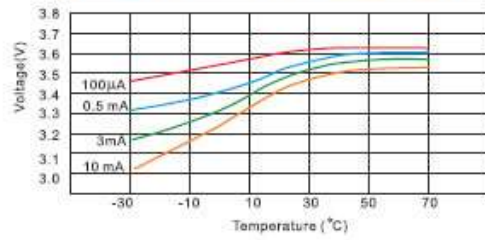
**Energy Type**

(For ER14250 Typical)

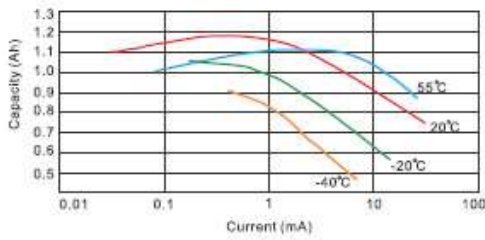
**Discharge Characteristics**



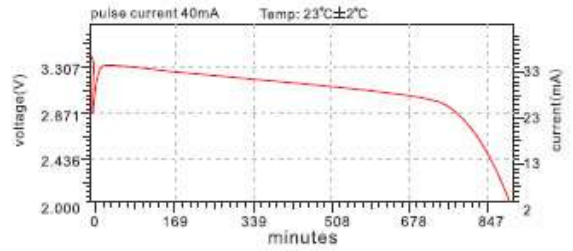
**Voltage Vs. Temperature Characteristics**



**Capacity Vs. Current Characteristics**



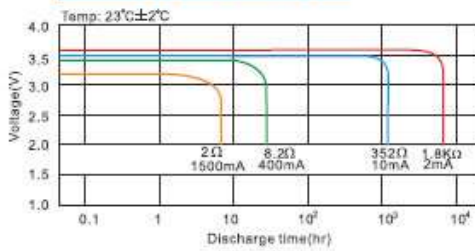
**Discharge Curve for Passivated Battery**



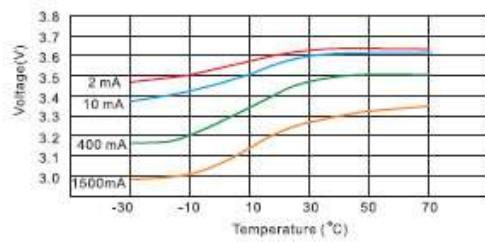
**High Power Type**

(For ER34615M Typical)

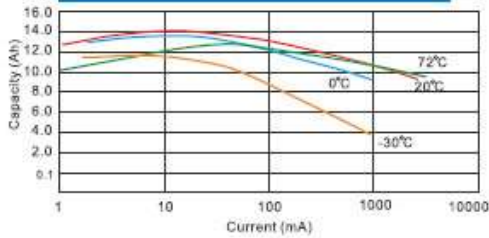
**Discharge Characteristics**



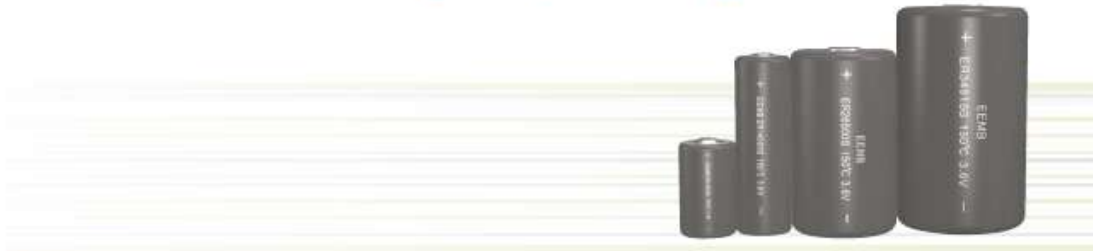
**Voltage Vs. Temperature Characteristics**



**Capacity Vs. Current Characteristics**



## Li-SOCl<sub>2</sub> Battery High Temperature Type



### High Temperature

Model	Size	Nominal Voltage (V)	Nominal Capacity (mAh)	Standard Discharge Current (mA)	Max. Discharge Current (mA)	Diameter (mm)	Height (mm)	Approx. Weight (g)
ER14250S	1/2AA	3.6	800	1	25	14.5	25.0	10.0
ER14505S	AA	3.6	1600	100	100	14.5	50.5	19.0
ER26500S	C	3.6	4800	35	100	26.2	50.0	60.0
ER34615S	D	3.6	10500	35	200	34.0	61.5	110.0
ER341245S	DD	3.6	20000	200	1000	34.0	127.0	200.0

### ■ MAIN FEATURES

- ▼ Extension of temperature range up to +150°C.
- ▼ Less in capacity.
- ▼ Superior shelf life and high reliability.

### ■ APPLICATIONS

- ▼ Physical detection and NC wells detection tool
- ▼ Data acquisition instrument
- ▼ Electronic testing instrument
- ▼ Aerospace equipment