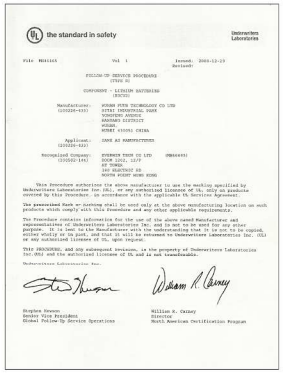
Qualifications



Li-SOCl$_2$ Battery

FANSO

Founded in 2002 by Mr. Dai Jianghua, an initiator of primary lithium battery in China, FANSO with experienced specialists and technicians in this field is a most qualified manufacturer of primary lithium batteries in China.

Owing to a team of industry specialists for over 30 years and senior experts among the first to be involved in lithium battery, FANSO BATTERY is always able to keep up with customers' evolving needs. FANSO has been the first to introduce primary lithium battery into civil and military use.

FANSO is a leader in the design and manufacture of primary lithium batteries. 3.6V high power Li–$SOCl_2$ product range by FANSO has been listed in The National Torch Program. High temperature range (165℃) is an ideal alternative to replace products abroad. FANSO firstly set a manufacturer's standard of high–temperature lithium battery, filling the gap in domestic industry. FANSO high temperature range with high discharge stability and safety is classified into moderate temperature(125℃), high temperature (150℃) and limiting temperature(200℃), in the testing phase). FANSO BATTRY is currently increasing the sales in North America and Middle East, while FANSO has been a well–known Chinese brand of lithium battery in America(The US Trademark Registration NO.:771058671). In addition, FANSO BATTERY is ISO9001, UL, CE, Rohs, MA, UN and many other international standards certified, our batteries are underwritten by People's Insurance Company of China (PICC).

Our main products are 3.6V Li–$SOCl_2$ product range and 3.0V Li–MnO_2 product range. Equipped with 14 advanced production lines, we have the manufacturing capability of 28 million pcs annually. Besides 500,000 pieces per year can be yielded by the most exclusively advanced production line for high temperature batteries.

FANSO wins the recognition and trust from customers home and abroad by striving for first–class technology, reliable quality and best service. Our batteries are mainly applied to civilian market— LWD&MWD for oil exploration, electronic pressure gauge, flow meter, tire pressure monitoring system, smart meter, RFID, TPMS, RAM and CMOS circuit, geothermal heat detector, and military fields— aerospace, underwater ordnance, sonar, GPS and various force stations.

FANSO sticks to continuously refining and innovating, satisfying our customers by utmost service. Choose FANSO, choose what you need.

Overview

Model	Size	Max Dimensions (ϕmmXmm)	Weight (g)	Nominal Voltage (V)	Nominal Capacity\ Current (mAh\mA)	Max Continuous Discharge Current (mA)	Operating Temperature (℃)	End Voltage (V)
Bobbin Type								
ER10450	AAA	ϕ10.4X45.3	9	3.6	750\1.0	15	–55~+85	2.0
ER13150	——	ϕ13.5X15.5	6	3.6	450\1.0	10	–55~+85	2.0
ER14335	2/3AA	ϕ14.5X33.5	13	3.6	1650\1.0	40	–55~+85	2.0
ER17335	2/3AA	ϕ17.0X33.5	18	3.6	1900\1.0	50	–55~+85	2.0
Bobbin Type								
ER14250H	1/2AA	ϕ14.5X25.2	9	3.6	1200\1.0	25	–55~+85	2.0
ER14505H	AA	ϕ14.5X50.5	18	3.6	2700\1.0	50	–55~+85	2.0
ER17505	A	ϕ17.0X50.5	24	3.6	3600\2.0	100	–55~+85	2.0
ER18505H	——	ϕ18.5X50.5	30	3.6	4100\2.0	100	–55~+85	2.0
ER26500H	C	ϕ26.2X50.0	53	3.6	9000\2.0	100	–55~+85	2.0
ER261020H	CC	ϕ26.2X102.0	101	3.6	16000\2.0	100	–55~+85	2.0
ER34615H	D	ϕ34.2X61.5	103	3.6	20000\2.0	150	–55~+85	2.0
ER341245H	DD	ϕ34.2X124.5	200	3.6	36000\10	500	–55~+85	2.0
Spiral Type								
ER14250M	1/2AA	ϕ14.5X25.2	10	3.6	750\1.0	200	–55~+80	2.0
ER14335M	2/3AA	ϕ14.5X33.5	13	3.6	1350\2.0	200	–55~+80	2.0
ER14505M	AA	ϕ14.5X50.5	19	3.6	2200\3.0	400	–55~+80	2.0
ER17335M	2/3A	ϕ17.0X33.5	19	3.6	1700\3.0	400	–55~+80	2.0
ER17505M	A	ϕ17.0X50.5	26	3.6	2800\5.0	1000	–55~+80	2.0
ER18505M	——	ϕ18.5X50.5	30	3.6	3500\5.0	1000	–55~+80	2.0
ER26500M	C	ϕ26.2X50.0	57	3.6	6000\10	1500	–55~+80	2.0
ER34615M	D	ϕ34.2X61.5	109	3.6	14000\15	1800	–55~+80	2.0

Model	Size	Max Dimensions (ϕmmXmm) (L) X (W) X (T)	Weight (g)	Nominal Voltage (V)	Nominal Capacity\ Current (mAh\mA)	Max Continuous Discharge Current (mA)	Operating Temperature (℃)	End Voltage (V)
Prismatic Type								
EF651615	LTC–3PN	16.8X6.8X15.8	5	3.6	400\0.5	5	–55~+85	2.0
EF651620	LTC–5PN	16.8X6.8X20.8	7	3.6	550\1.0	10	–55~+85	2.0
EF651625	LTC–7PN	16.8X6.8X25.8	8	3.6	750\1.0	10	–55~+85	2.0
EF752338	LTC–16M	23.3X7.5X38.3	20	3.6	1600\1.0	25	–55~+85	2.0
9 Volt Cell								
ER9V	3ER14250	49.1X26.8X17.4	31	9	1200\1.0	25	–55~+85	6.0

FANSO

Model	Size	Max Dimensions (ϕ mmXmm)	Weight (g)	Nominal Voltage (V)	Nominal Capacity\ Current (mAh\mA)	Max Continuous Discharge Current (mA)	Operating Temperature (℃)	End Voltage (V)
Button cells								
ER2450	——	ϕ24.5X6.2	9	3.6	500\0.5	8	-55~+125	2.0

Any values given here are for informational purposes only. They also depend on actual conditions of use and are not warranties of future performance. Subject to change.

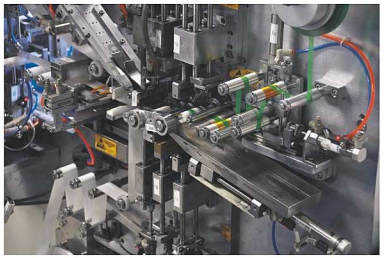
Unique patent

("minus" safety vent at the bottom of cells)

As an initiator and innovator of lithium battery in China, FANSO owns numbers of patents in manufacturing, among which is the minus safety vent at the bottom of cells. It guarantees directional relief, avoids injuries and fatalities during transportation, storage and use. This patent is mainly applied to spirally wound type currently and is greatly appreciated by customers since successfully introduced into the market in 2008.

Advanced manufacturing capability






Li-SOCl$_2$ Battery with High Capacity

Key features

●High and stable operating voltage ●Long shelf life(Self-discharge rate less than 1% at 25 ℃) ●Long operating life
● Wide temperature range ●Stainless steel container and end caps ●Hermetic glass-to-metal sealing ●Non-flammable electrolyte
●Compliant with IEC86-4 safety standard ●Non-restricted for transport ●High energy density (700wh/kg)

Main appliances

●Utility metering ●Alarm and security devices ●Memory back-up power ●Professional electronics ●Automotive electronics
●Real-time clock ● Tracking system

Storage

The storage area should be clean, cool(preferably below +20℃, not exceeding +30℃), dry and ventilated.

Model	Size	Max Dimensions (ϕ mmXmm)	Weight (g)	Nominal Voltage (V)	Nominal Capacity\ Current (mAh\mA)	Max Continuous Discharge Current (mA)	Operating Temperature (℃)	End Voltage (V)
ER14250H	1/2AA	ϕ14.5X25.2	9	3.6	1200\1.0	25	-55~+85	2.0
ER14505H	AA	ϕ14.5X50.5	18	3.6	2700\1.0	50	-55~+85	2.0
ER17505	A	ϕ17.0X50.5	24	3.6	3600\2.0	100	-55~+85	2.0
ER18505H	——	ϕ18.5X50.5	30	3.6	4100\2.0	100	-55~+85	2.0
ER26500H	C	ϕ26.2X50.0	53	3.6	9000\2.0	100	-55~+85	2.0
ER261020H	CC	ϕ26.2X102.0	101	3.6	16000\2.0	100	-55~+85	2.0
ER34615H	D	ϕ34.2X61.5	103	3.6	20000\2.0	150	-55~+85	2.0
ER341245H	DD	ϕ34.2X124.5	200	3.6	36000\10	500	-55~+85	2.0

Warning: Do not recharge, short circuit, crush, disassemble, heat above100℃, incinerate, or expose contents to water. Dispose of used batteries properly in case of explosion, burn and leakage.

FANSO

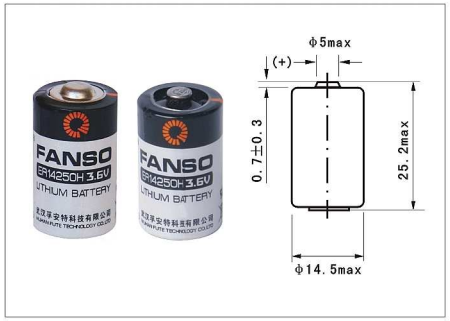
ER14250H

Performance data

(Typical values relative to cells stored for one year or less at 30℃ max.)

- Nominal capacity 1200mAh
  (at 1mA, +25℃, 2.0V cut-off)
- Open circuit voltage 3.66V
- Maximum recommended continuous current 25mA
  (at+25℃ 2.0V cut-off, up to 50% of nominal capacity)
- Max. pulse current 100mA

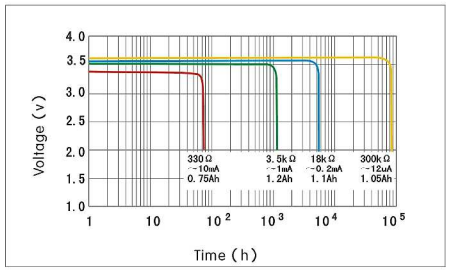
  100mA/0.1s pulses, drained every 2 minutes at 25℃ from 1mA mid-discharged cells with 20μA base current, yield voltage readings above 2.7V. The readings may vary according to the pulse characteristics, the temperature, and the cell's previous history.
- Operating temperature range ..... -55℃~+85℃



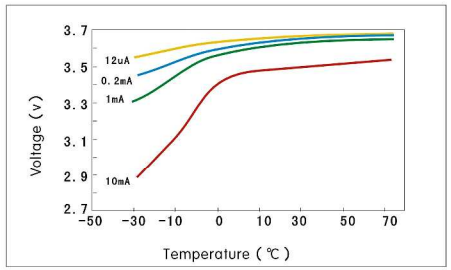
Terminals: -/P ..... Axial pins
-/T/PT2 ..... Radial pins
-/PT/TP ..... Polarized tags

Customized designs are available

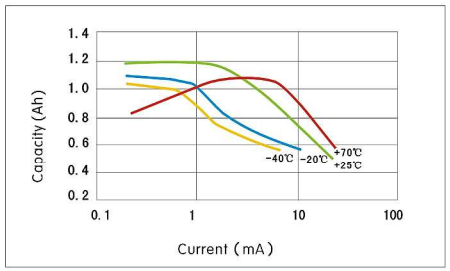
Typical discharge curves at 25℃



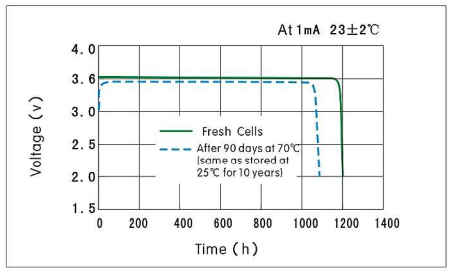
Voltage vs. Temperature



Capacity vs. Current (2.0V cut-off)



Storage characteristics



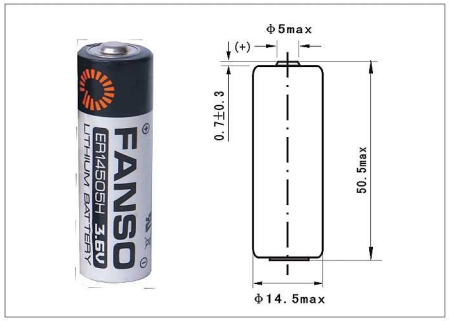
ER14505H

Performance data

(Typical values relative to cells stored for one year or less at 30℃ max.)

- Nominal capacity 2700mAh
  (at 1mA, +25℃, 2.0V cut-off)
- Open circuit voltage 3.66V
- Maximum recommended continuous current 50mA
  (at+25℃ 2.0V cut-off, up to 50% of nominal capacity)
- Max. pulse current 150mA

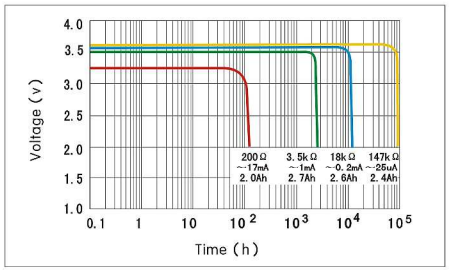
  150mA/0.1s pulses, drained every 2 minutes at 25℃ from 1mA mid-discharged cells with 20μA base current, yield voltage readings above 2.7V. The readings may vary according to the pulse characteristics, the temperature, and the cell's previous history.
- Operating temperature range ..... -55℃~+85℃



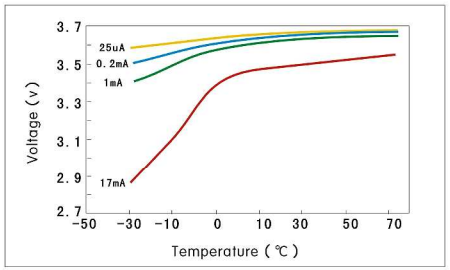
Terminals: -/P ..... Axial pins
-/T/PT2 ..... Radial pins
-/PT/TP ..... Polarized tags

Customized designs are available

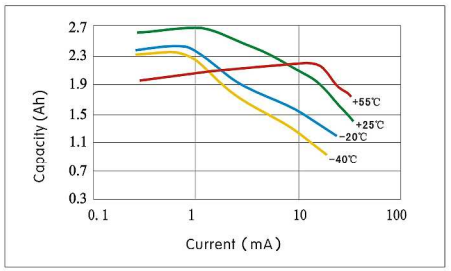
Typical discharge curves at 25℃



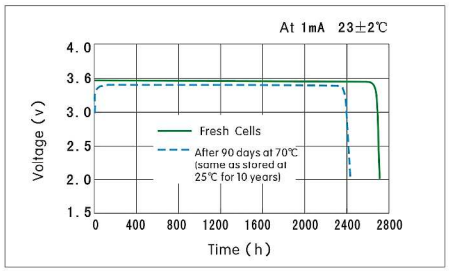
Voltage vs. Temperature



Capacity vs. Current (2.0V cut-off)



Storage characteristics



FANSO

ER17505

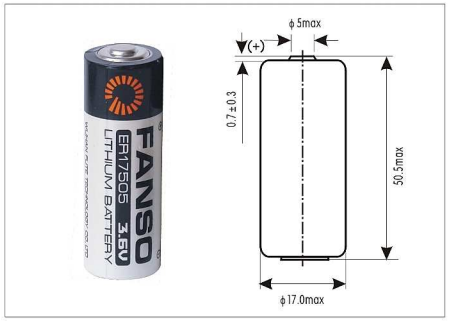
Performance data

(Typical values relative to cells stored for one year or less at 30℃ max.)

- Nominal capacity 3600mAh
  (at 2mA, +25℃, 2.0V cut-off)
- Open circuit voltage 3.66V
- Maximum recommended continuous current 100mA
  (at+25℃ 2.0V cut-off, up to 50% of nominal capacity)
- Max. pulse current 200mA

200mA/0.1s pulses, drained every 2 minutes at 25℃ from 2mA mid-discharged cells with 20μA base current, yield voltage readings above 2.7V. The readings may vary according to the pulse characteristics, the temperature, and the cell's previous history.

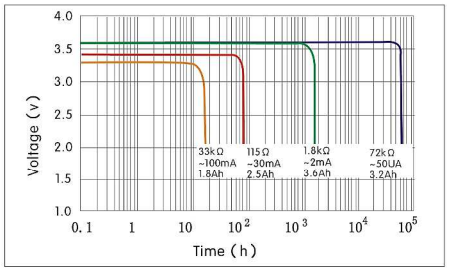
- Operating temperature range ..... -55℃~+85℃



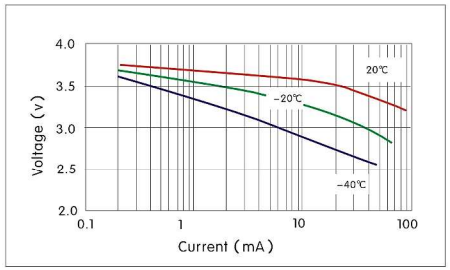
Terminals: -/P ..... Axial pins
-/T/PT2 ..... Radial pins
-/PT/TP ..... Polarized tags

Customized designs are available

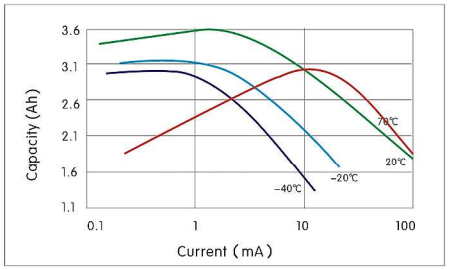
Typical discharge curves at 25℃



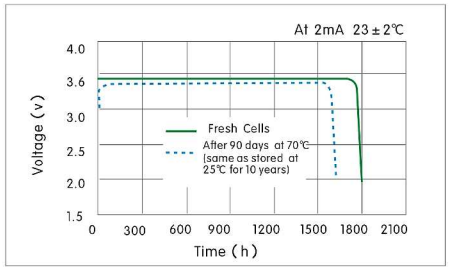
Voltage vs. Current



Capacity vs. Current



Storage characteristics



ER18505H

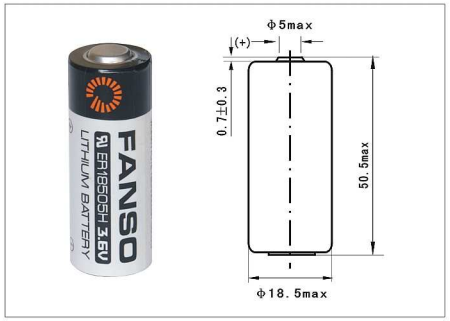
Performance data

(Typical values relative to cells stored for one year or less at 30℃ max.)

- Nominal capacity 4100mAh
  (at 2mA, +25℃, 2.0V cut-off)
- Open circuit voltage 3.66V
- Maximum recommended continuous current 100mA
  (at+25℃ 2.0V cut-off, up to 50% of nominal capacity)
- Max. pulse current 200mA

200mA/0.1s pulses, drained every 2 minutes at 25℃ from 2mA mid-discharged cells with 20μA base current, yield voltage readings above 2.7V. The readings may vary according to the pulse characteristics, the temperature, and the cell's previous history.

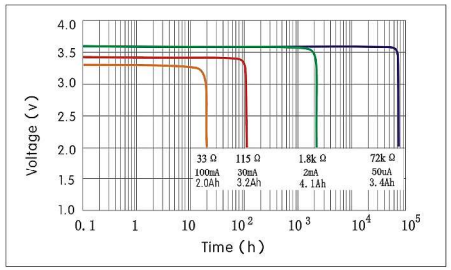
- Operating temperature range ..... -55℃~+85℃



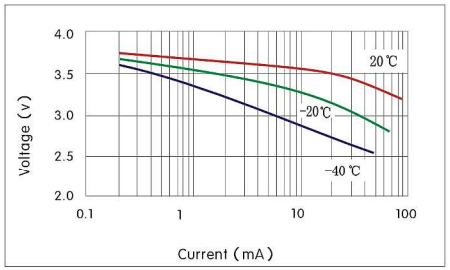
Terminals: -/P ..... Axial pins
-/T/PT2 ..... Radial pins
-/PT/TP ..... Polarized tags

Customized designs are available

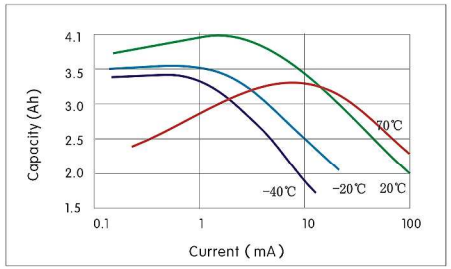
Typical discharge curves at 25℃



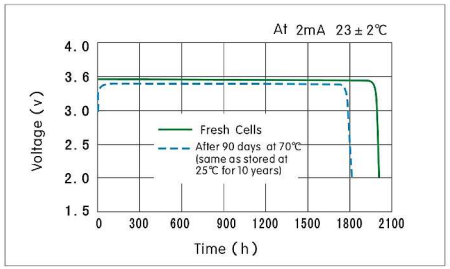
Voltage vs. Current



Capacity vs. Current



Storage characteristics



FANSO

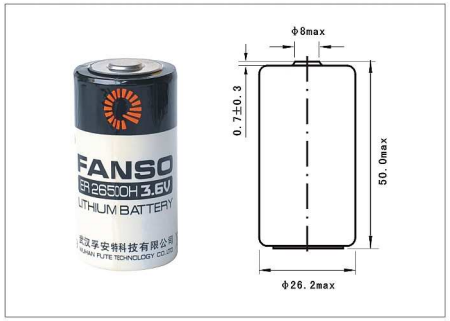
ER26500H

Performance data

(Typical values relative to cells stored for one year or less at 30℃ max.)

- Nominal capacity 9000mAh
  (at 2mA, +25℃, 2.0V cut-off)
- Open circuit voltage 3.66V
- Maximum recommended continuous current 100mA
  (at+25℃ 2.0V cut-off, up to 50% of nominal capacity)
- Max. pulse current 200mA

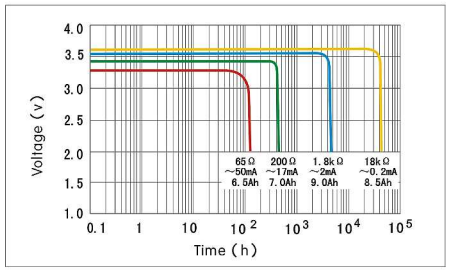
  200mA/0.1s pulses, drained every 2 minutes at 25℃ from 2mA mid-discharged cells with 20μA base current, yield voltage readings above 2.7V. The readings may vary according to the pulse characteristics, the temperature, and the cell's previous history.
- Operating temperature range ..... -55℃~+85℃



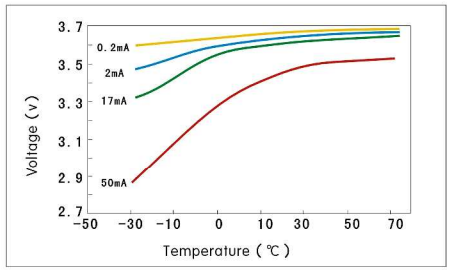
Terminals: -/P ..... Axial pins
-/T/PT2 ..... Radial pins
-/PT/TP ..... Polarized tags

Customized designs are available

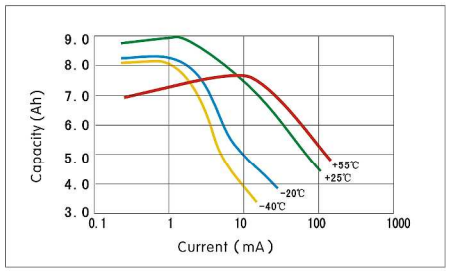
Typical discharge curves at 25℃



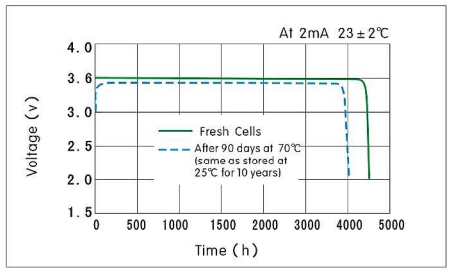
Voltage vs. Temperature



Capacity vs. Current (2.0V cut-off)



Storage characteristics



ER34615H

Performance data

(Typical values relative to cells stored for one year or less at 30℃ max.)

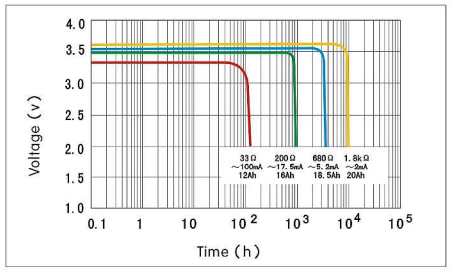
- Nominal capacity 20000mAh
  (at 2mA, +25℃, 2.0V cut-off)
- Open circuit voltage 3.66V
- Maximum recommended continuous current 150mA
  (at+25℃ 2.0V cut-off, up to 50% of nominal capacity)
- Max. pulse current 300mA

  300mA/0.1s pulses, drained every 2 minutes at 25℃ from 2mA mid-discharged cells with 20μA base current, yield voltage readings above 2.7V. The readings may vary according to the pulse characteristics, the temperature, and the cell's previous history.
- Operating temperature range ..... -55℃~+85℃

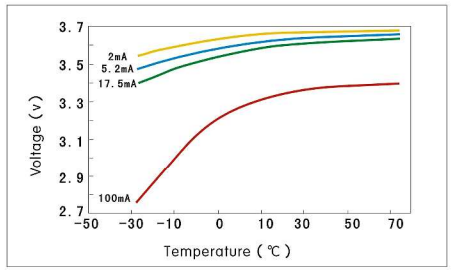
Terminals: -/P ..... Axial pins
-/T/PT2 ..... Radial pins
-/PT/TP ..... Polarized tags

Customized designs are available

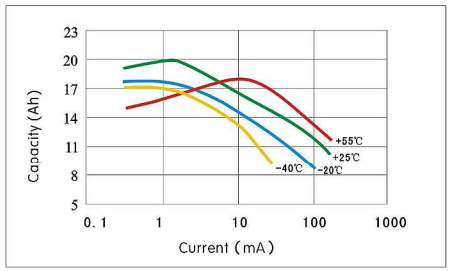
Typical discharge curves at 25℃



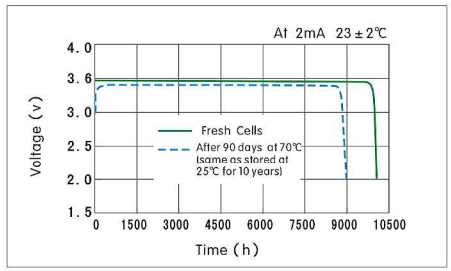
Voltage vs. Temperature



Capacity vs. Current (2.0V cut-off)



Storage characteristics

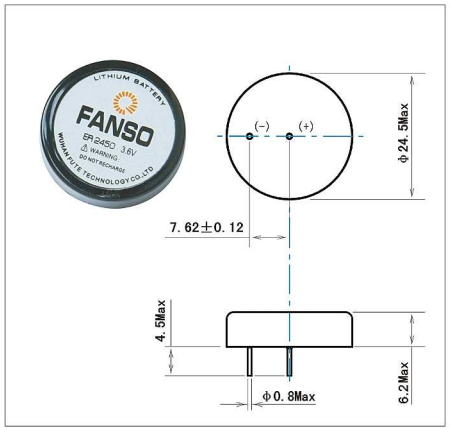


FANSO

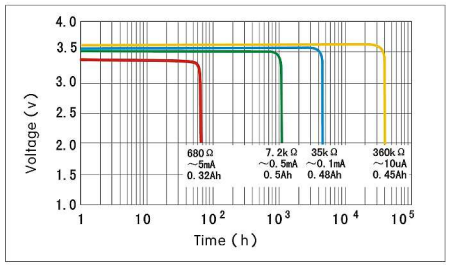
Li/SOCl$_2$ Battery
Tire Perssure Monitoring System

ER2450
Performance data
(Typical values relative to cells stored for one year or less at 30℃ max.)

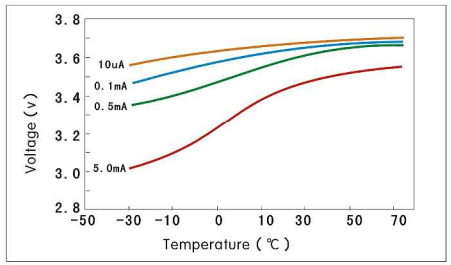
- Nominal capacity 500mAh
  (at 0.5mA, +25℃ ,2.0V cut-off)
- Open circuit voltage 3.66V
- Maximum recommended continuous current 8mA
  (at+25℃ 2.0V cut-off, up to 50% of nominal capacity)
- Max. pulse current 20mA
  20mA/0.1s pulses, drained every 2 minutes at 25℃ from 0.5mA mid-discharged cells with 20μA base current, yield voltage readings above 2.7V. The readings may vary according to the pulse characteristics, the temperature, and the cell's previous history.
- Operating temperature range ..... -55℃~+125℃



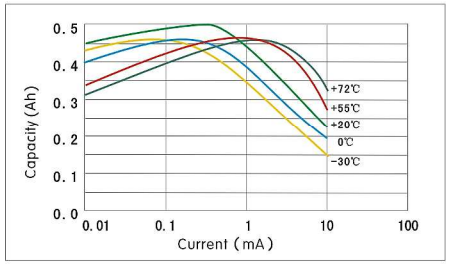
Typical discharge curves at23 ± 2℃



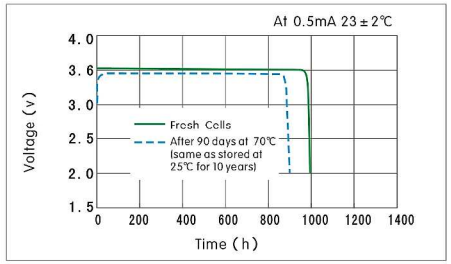
Voltage vs. Temperature



Capacity vs. Current (2.0V cut-off)



Storage characteristics

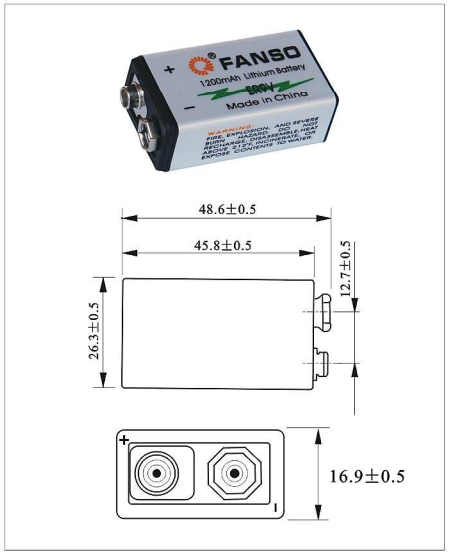


ER9V 1200mAh
Performance data
(Typical values relative to cells stored for one year or less at 30℃ max.)

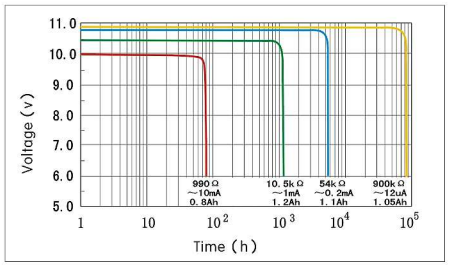
Key features
- High and stable operating voltage
- Stainless steel container and end caps
- High energy density (700wh/kg)
- Compliant with IEC86-4 safety standard
- Hermetic glass-to-metal sealing ● Long operating life
- Long shelf life(Self-discharge rate less than 1% at 25 ℃)
- Non-restricted for transport ● Wide temperature range
- Non-flammable electrolyte ● Non-restricted for transport

Main appliances
- Utility metering ● Real-time clock
- Smoke detector ● Professional electronics
- Memory back-up power ● Alarm and security devices

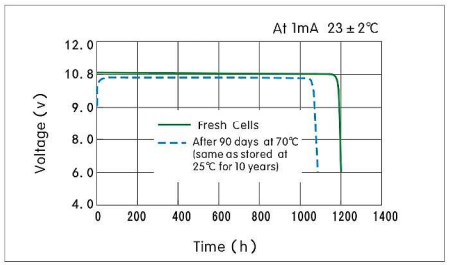
- Nominal capacity 1200mAh
  (at 1mA, +25℃ ,2.0V cut-off)
- Open circuit voltage 11V
- Maximum recommended continuous current 25mA
  (at+25℃ 2.0V cut-off, up to 50% of nominal capacity)
- Max. pulse current 100mA
  100mA/0.1s pulses, drained every 2 minutes at 25℃ from 1mA mid-discharged cells with 20μA base current, yield voltage readings above 6V. The readings may vary according to the pulse characteristics, the temperature, and the cell's previous history.
- Operating temperature range ..... -55℃~+85℃



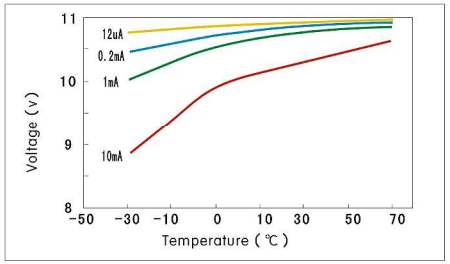
Typical discharge curves at 25℃



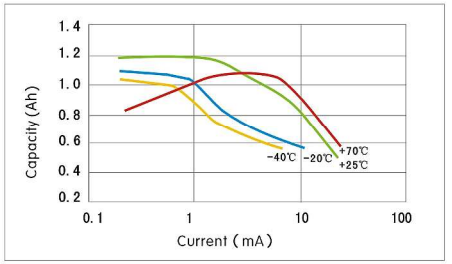
Storage characteristics



Capacity vs. Current and Temperature (6.0V cut-off)



Voltage vs. Current and Temperature



FANSO

Li-SOCl$_2$ Battery with High Power

Key features

●High and stable operating voltage ●Long shelf life(Self-discharge rate less than 1% at 25 ℃) ●Long operating life
● Wide temperature range ●Stainless steel container and end caps ●Hermetic glass-to-metal sealing ●Non-flammable electrolyte
●Compliant with IEC86-4 safety standard ●Non-restricted for transport ●High energy density (700wh/kg)

Main appliances

●Utility metering ●Military system ●Alarm and security devices ●Memory back-up power ●Tracking system
●Automotive electronics ● Professional electronics

Storage

The storage area should be clean, cool(preferably below +20℃, not exceeding +30℃), dry and ventilated.

Model	Size	Max Dimensions (ϕmmXmm)	Weight (g)	Nominal Voltage (V)	Nominal Capacity\ Current (mAh\mA)	Max Continuous Discharge Current (mA)	Operating Temperature (℃)	End Voltage (V)
ER14250M	1/2AA	ϕ14.5X25.2	10	3.6	750\1.0	200	-55~+80	2.0
ER14335M	2/3AA	ϕ14.5X33.5	13	3.6	1350\2.0	200	-55~+80	2.0
ER14505M	AA	ϕ14.5X50.5	19	3.6	2200\3.0	400	-55~+80	2.0
ER17335M	2/3A	ϕ17.0X33.5	19	3.6	1700\3.0	400	-55~+80	2.0
ER17505M	A	ϕ17.0X50.5	26	3.6	2800\5.0	1000	-55~+80	2.0
ER18505M	——	ϕ18.5X50.5	30	3.6	3500\5.0	1000	-55~+80	2.0
ER26500M	C	ϕ26.2X50.0	57	3.6	6000\10	1500	-55~+80	2.0
ER34615M	D	ϕ34.2X61.5	109	3.6	14000\15	1800	-55~+80	2.0

Warning: Do not recharge, short circuit, crush, disassemble, heat above100℃, incinerate, or expose contents to water. Dispose of used batteries properly in case of explosion, burn and leakage.

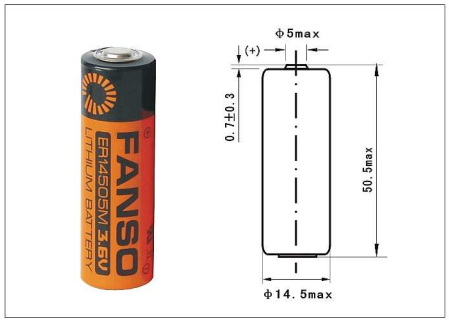
ER14505M

Performance data

(Typical values relative to cells stored for one year or less at 30℃ max.)

- Nominal capacity 2200mAh
  (at 3mA, +25℃, 2.0V cut-off)
- Open circuit voltage 3.66V
- Maximum recommended continuous current 400mA
- Max. pulse current 1000mA

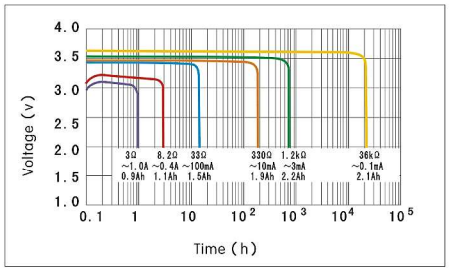
  1000mA/0.1s pulses, drained every 2 minutes at 25℃ from 3mA mid-discharged cells with 20μA base current, yield voltage readings above2.7V.The readings may vary according to the pulse characteristics, the temperature, and the cell's previous history.
- Operating temperature range ..... -55℃~+80℃



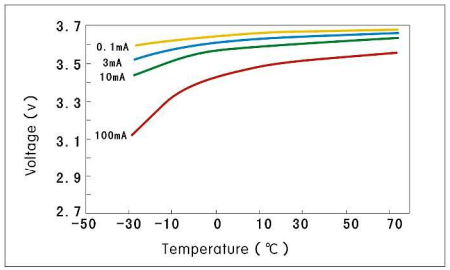
Terminals: -/T/PT2 ..... Radial pins
-/PT/TP ..... Polarized tags

Customized designs are available

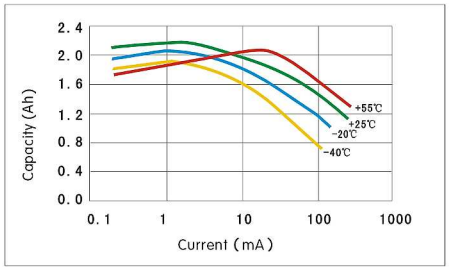
Typical discharge curves at 25℃



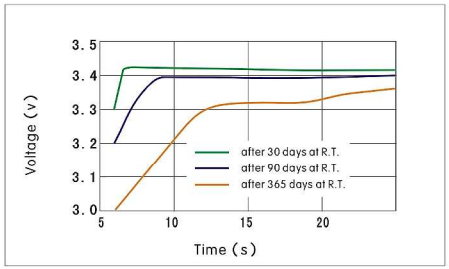
Voltage vs. Temperature



Capacity vs. Current (2.0V cut-off)



Voltage response at 150mA 23±2℃



FANSO

ER17335M

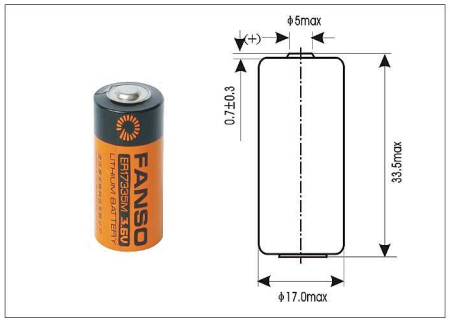
Performance data

(Typical values relative to cells stored for one year or less at 30℃ max.)

- Nominal capacity 1700mAh
  (at 3mA, +25℃, 2.0V cut-off)
- Open circuit voltage 3.66V
- Maximum recommended continuous current 400mA
- Max. pulse current 800mA

800mA/0.1s pulses, drained every 2 minutes at 25℃ from 3mA mid-discharged cells with 20μA base current, yield voltage readings above 2.7V. The readings may vary according to the pulse characteristics, the temperature, and the cell's previous history.

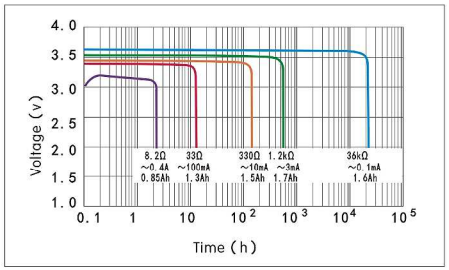
- Operating temperature range ..... -55℃~+80℃



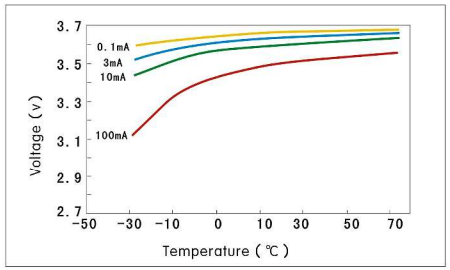
Terminals: -/T/PT2 ..... Radial pins
-/PT/TP ..... Polarized tags

Customized designs are available

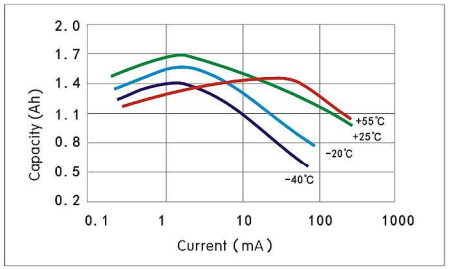
Typical discharge curves at 25℃



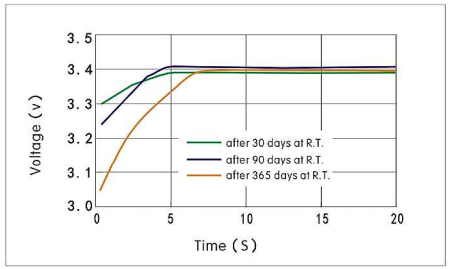
Voltage vs. Temperature



Capacity vs. Current (2.0V cut-off)



Voltage response at 100mA 23±2℃



ER17505M

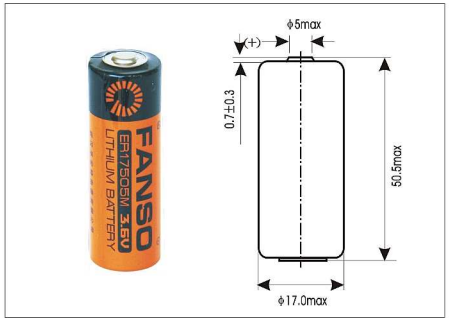
Performance data

(Typical values relative to cells stored for one year or less at 30℃ max.)

- Nominal capacity 2800mAh
  (at 5mA, +25℃, 2.0V cut-off)
- Open circuit voltage 3.66V
- Maximum recommended continuous current 1000mA
- Max. pulse current 1500mA

1500mA/0.1s pulses, drained every 2 minutes at 25℃ from 5mA mid-discharged cells with 20μA base current, yield voltage readings above2.7V. The readings may vary according to the pulse characteristics, the temperature, and the cell's previous history.

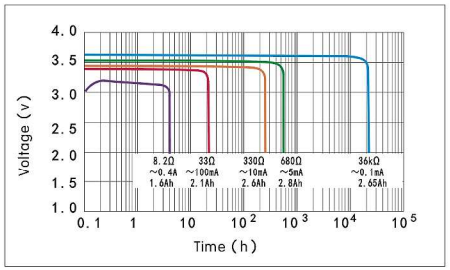
- Operating temperature range ..... -55℃~+80℃



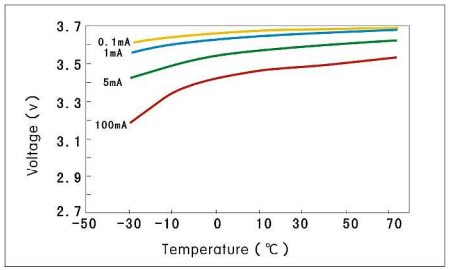
Terminals: -/T/PT2 ..... Radial pins
-/PT/TP ..... Polarized tags

Customized designs are available

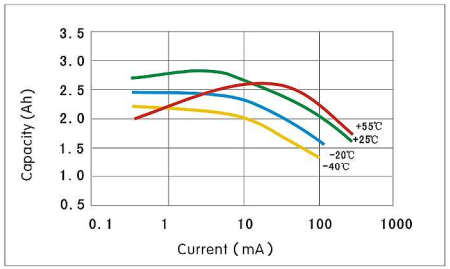
Typical discharge curves at 25℃



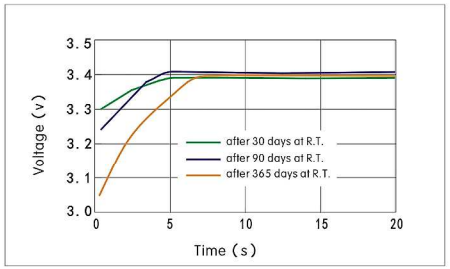
Voltage vs. Temperature



Capacity vs. Current (2.0V cut-off)



Voltage response at 150mA 23±2℃



FANSO

ER18505M

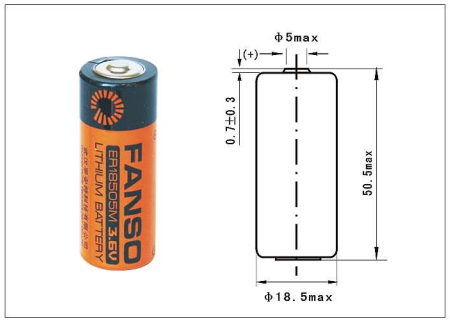
Performance data

(Typical values relative to cells stored for one year or less at 30℃ max.)

- Nominal capacity 3500mAh
  (at 5mA, +25℃, 2.0V cut-off)
- Open circuit voltage 3.66V
- Maximum recommended continuous current 1000mA
- Max. pulse current 2000mA

2000mA/0.1s pulses, drained every 2 minutes at 25℃ from 5mA mid-discharged cells with 20μA base current, yield voltage readings above 2.7V. The readings may vary according to the pulse characteristics, the temperature, and the cell's previous history.

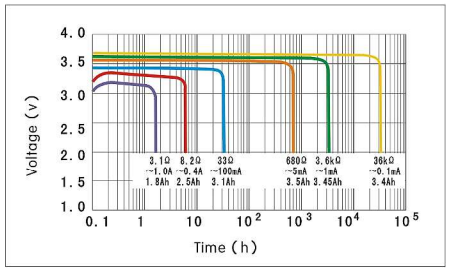
- Operating temperature range ..... -55℃~+80℃



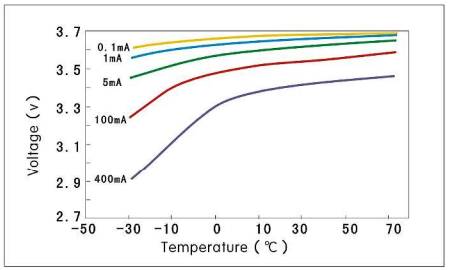
Terminals: -/T/PT2 ..... Radial pins
-/PT/TP ..... Polarized tags

Customized designs are available

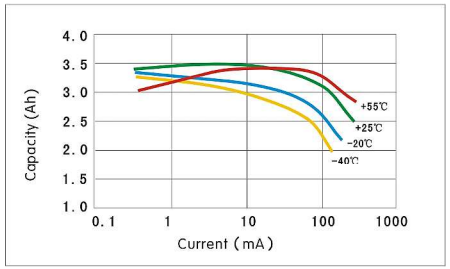
Typical discharge curves at 25℃



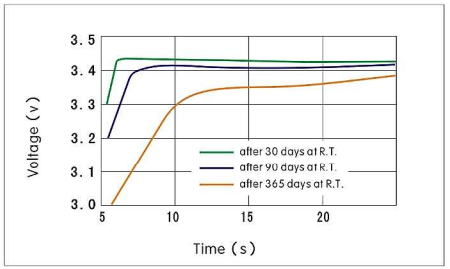
Voltage vs. Temperature



Capacity vs. Current (2.0V cut-off)



Voltage response at 200mA 23±2℃



ER26500M

Performance data

(Typical values relative to cells stored for one year or less at 30℃ max.)

- Nominal capacity 6000mAh
  (at 10mA, +25℃, 2.0V cut-off)
- Open circuit voltage 3.66V
- Maximum recommended continuous current 1500mA
- Max. pulse current 2500mA

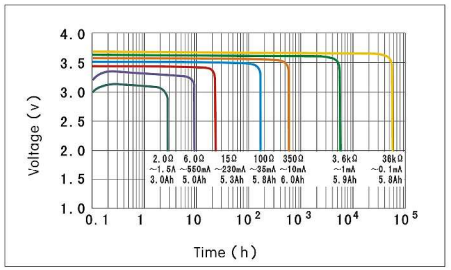
2500mA/0.1s pulses, drained every 2 minutes at 25℃ from 10mA mid-discharged cells with 20μA base current, yield voltage readings above2.7V. The readings may vary according to the pulse characteristics, the temperature, and the cell's previous history.

- Operating temperature range ..... -55℃~+80℃

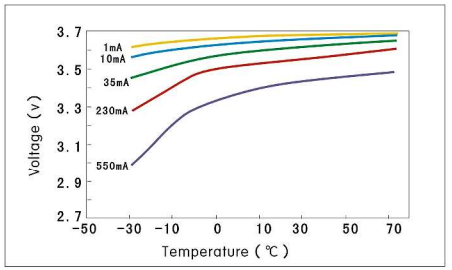
Terminals: -/T/PT2 ..... Radial pins
-/PT/TP ..... Polarized tags

Customized designs are available

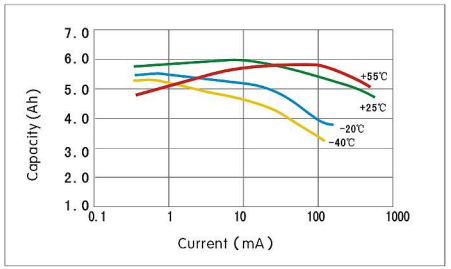
Typical discharge curves at 25℃



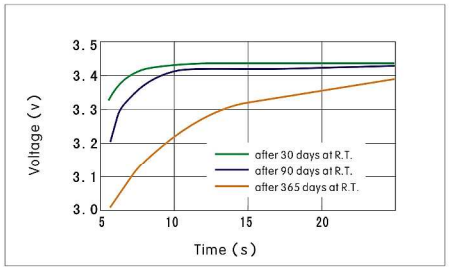
Voltage vs. Temperature



Capacity vs. Current (2.0V cut-off)



Voltage response at 300mA 23±2℃



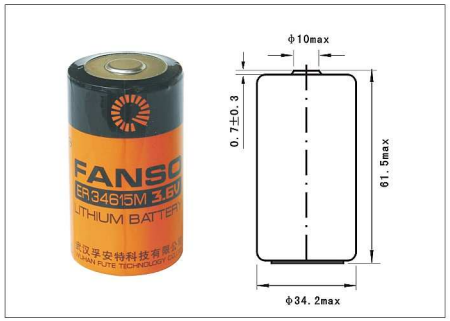
ER34615M

Performance data

(Typical values relative to cells stored for one year or less at 30℃ max.)

- Nominal capacity 14000mAh
  (at 15mA, +25℃, 2.0V cut-off)
- Open circuit voltage 3.66V
- Maximum recommended continuous current 1800mA
- Max. pulse current 3500mA

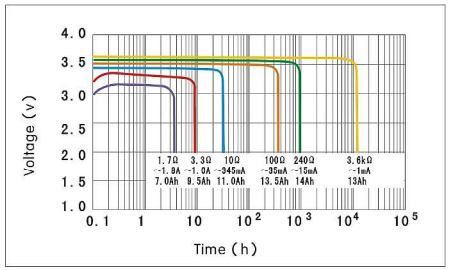
  3500mA/0.1s pulses, drained every 2 minutes at 25℃ from 15mA mid-discharged cells with 20μA base current, yield voltage readings above 2.7V. The readings may vary according to the pulse characteristics, the temperature, and the cell's previous history.
- Operating temperature range ..... -55℃~+80℃



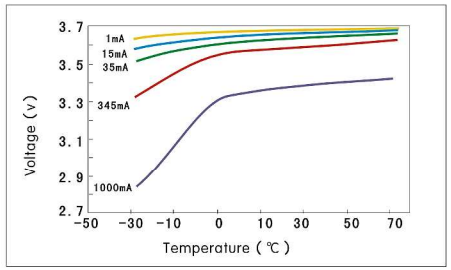
Terminals: -/T/PT2 ..... Radial pins
-/PT/TP ..... Polarized tags

Customized designs are available

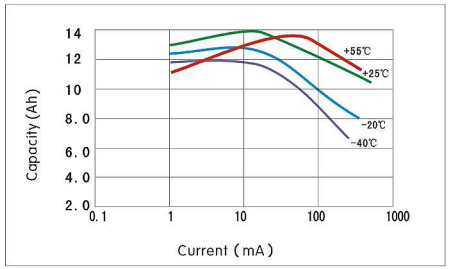
Typical discharge curves at 25℃



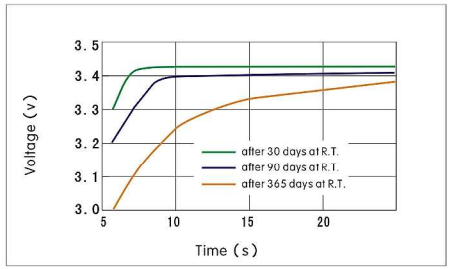
Voltage vs. Temperature



Capacity vs. Current (2.0V cut-off)



Voltage response at 400mA 23 ± 2℃



Li-SOCl$_2$ Battery with High Capacity

Key features

- High and stable operating voltage
- Long shelf life(Self-discharge rate less than 1% at 25 ℃)
- Long operating life
- Wide temperature range
- Stainless steel container and end caps
- Hermetic glass-to-metal sealing
- Compliant with IEC86-4 safety standard
- Non-restricted for transport
- High energy density (700wh/kg)
- Non-flammable electrolyte

Main appliances

- Utility metering
- Alarm and security devices
- Memory back-up power
- Tracking system
- Professional electronics
- Real-time clock
- Automotive electronics

Storage

The storage area should be clean, cool(preferably below +20℃, not exceeding +30℃), dry and ventilated.

Model	Size	Max Dimensions (ϕmmXmm) (L) X (W) X (T)	Weight (g)	Nominal Voltage (V)	Nominal Capacity\ Current (mAh\mA)	Max Continuous Discharge Current (mA)	Operating Temperature (℃)	End Voltage (V)
EF651615	LTC-3PN	16.8X6.8X15.8	5	3.6	400\0.5	5	-55~+85	2.0
EF651620	LTC-5PN	16.8X6.8X20.8	7	3.6	550\1.0	10	-55~+85	2.0
EF651625	LTC-7PN	16.8X6.8X25.8	8	3.6	750\1.0	10	-55~+85	2.0
EF752338	LTC-16M	23.3X7.5X38.3	20	3.6	1600\1.0	25	-55~+85	2.0

Warning: Do not recharge, short circuit, crush, disassemble, heat above100℃, incinerate, or expose contents to water. Dispose of used batteries properly in case of explosion, burn and leakage.

FANSO

EF651615

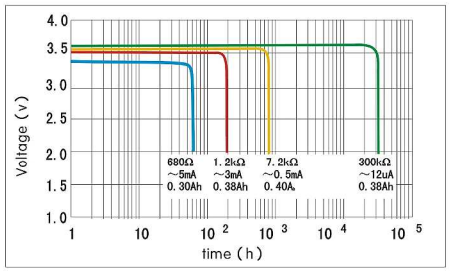
Performance data

(Typical values relative to cells stored for one year or less at 30℃ max.)

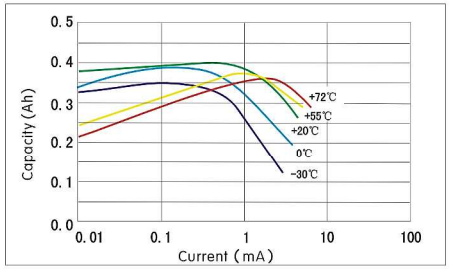
- Nominal capacity ····· 400mAh
  (at 0.5mA, +25℃, 2.0V cut-off)
- Open circuit voltage ····· 3.66V
- Maximum recommended continuous current ····· 5mA
  (at+25℃ 2.0V cut-off, up to 50% of nominal capacity)
- Max. pulse current ····· 20mA

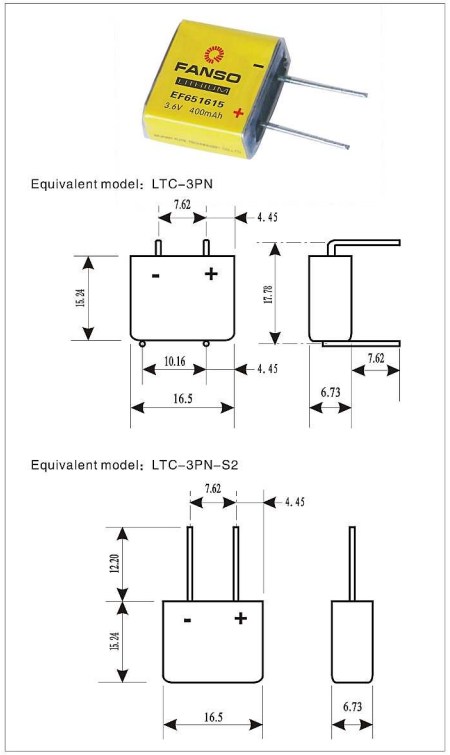
  20mA/0.1s pulses, drained every 2 minutes at 25℃ from 0.5mA mid-discharged cells with 20μA base current, yield voltage readings above 2.7V. The readings may vary according to the pulse characteristics, the temperature, and the cell's previous history.
- Operating temperature range ····· -55℃~+85℃

Typical discharge curves at 25℃

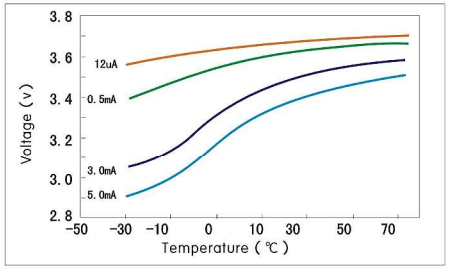


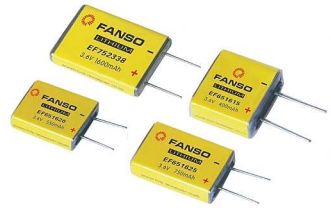
Capacity vs. Current (2.0V cut-off)





Voltage vs. Current and Temperature





EF651620

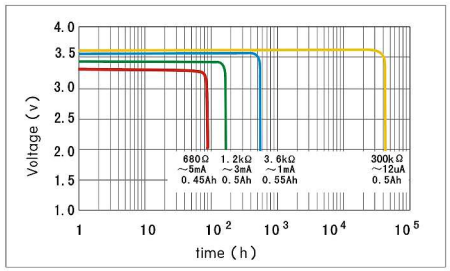
Performance data

(Typical values relative to cells stored for one year or less at 30℃ max.)

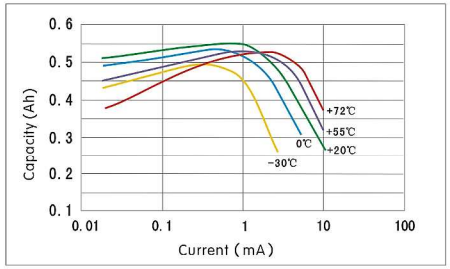
- Nominal capacity ····· 550mAh
  (at 1mA, +25℃, 2.0V cut-off)
- Open circuit voltage ····· 3.66V
- Maximum recommended continuous current ····· 10mA
  (at+25℃ 2.0V cut-off, up to 50% of nominal capacity)
- Max. pulse current ····· 30mA

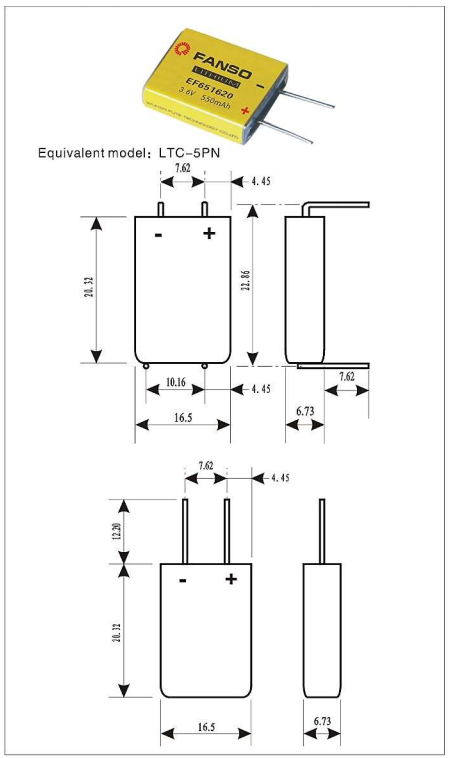
  30mA/0.1s pulses, drained every 2 minutes at 25℃ from 1mA mid-discharged cells with 20μA base current, yield voltage readings above2.7V. The readings may vary according to the pulse characteristics, the temperature, and the cell's previous history.
- Operating temperature range ····· -55℃~+85℃

Typical discharge curves at 25℃

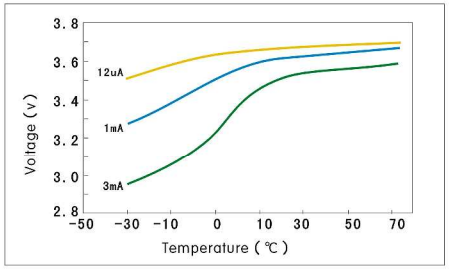


Capacity vs. Current (2.0V cut-off)





Voltage vs. Current and Temperature



FANSO

EF651625

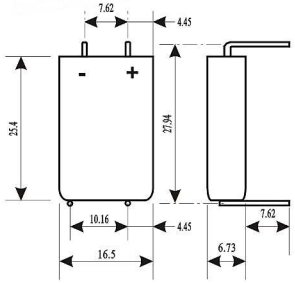
Performance data

(Typical values relative to cells stored for one year or less at 30℃ max.)

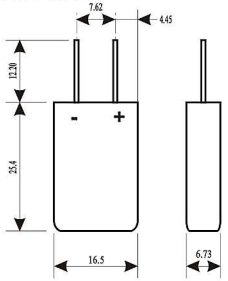
- Nominal capacity 750mAh
  (at 1mA, +25℃, 2.0V cut-off)
- Open circuit voltage 3.66V
- Maximum recommended continuous current 10mA
  (at+25℃ 2.0V cut-off, up to 50% of nominal capacity)
- Max. pulse current 30mA

  30mA/0.1s pulses, drained every 2 minutes at 25℃ from 1mA mid-discharged cells with 20μA base current, yield voltage readings above 2.7V. The readings may vary according to the pulse characteristics, the temperature, and the cell's previous history.
- Operating temperature range ..... -55℃~+85℃

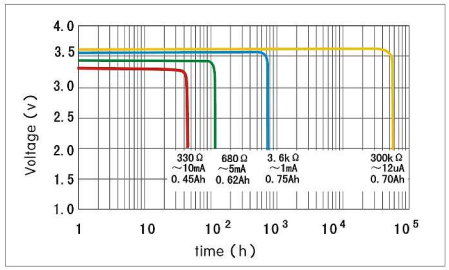
Equivalent model: LTC-7PN



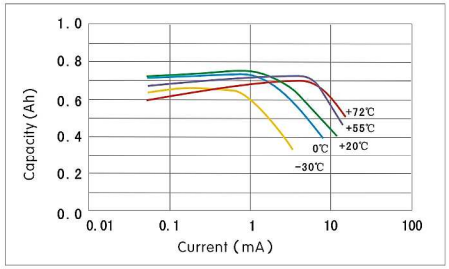
Equivalent model: LTC-7PN-S4



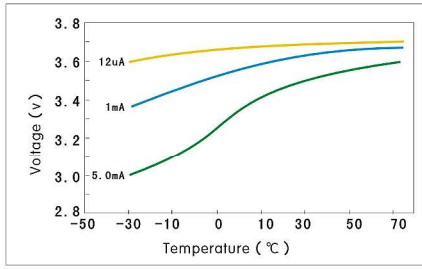
Typical discharge curves at 25℃



Capacity vs. Current (2.0V cut-off)



Voltage vs. Current and Temperature



EF752338

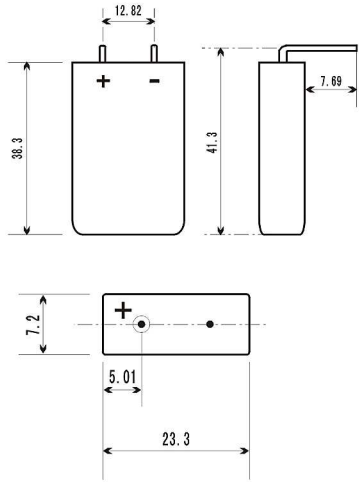
Performance data

(Typical values relative to cells stored for one year or less at 30℃ max.)

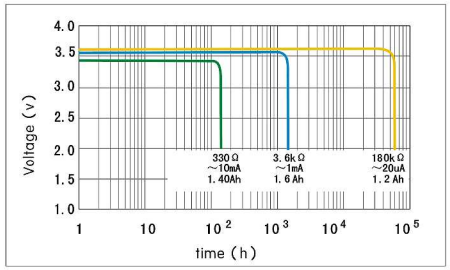
- Nominal capacity 1600mAh
  (at 1mA, +25℃, 2.0V cut-off)
- Open circuit voltage 3.66V
- Maximum recommended continuous current 25mA
  (at+25℃ 2.0V cut-off, up to 50% of nominal capacity)
- Max. pulse current 50mA

  50mA/0.1s pulses, drained every 2 minutes at 25℃ from 1mA mid-discharged cells with 20μA base current, yield voltage readings above2.7V. The readings may vary according to the pulse characteristics, the temperature, and the cell's previous history.
- Operating temperature range ..... -55℃~+85℃

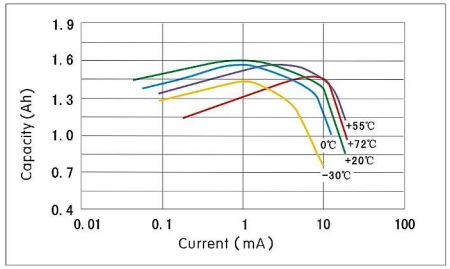
Equivalent model: LTC-16M



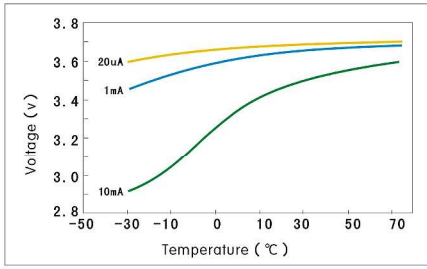
Typical discharge curves at 25℃



Capacity vs. Current (2.0V cut-off)

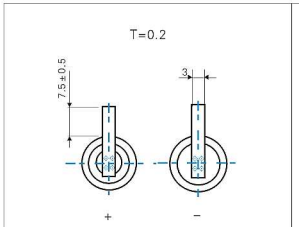


Voltage vs. Current and Temperature

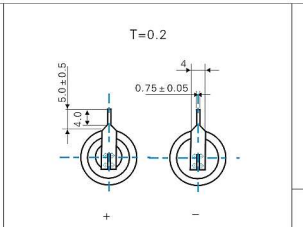


FANSO

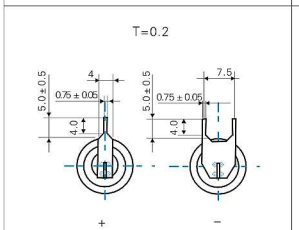
Terminals for single cells(can be customized)



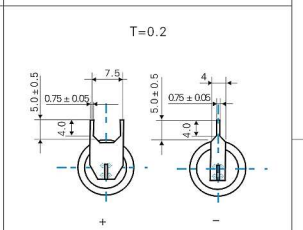
−/T



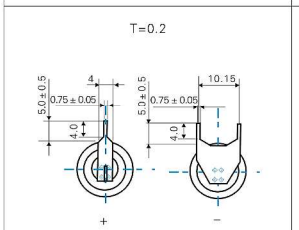
−/2PT



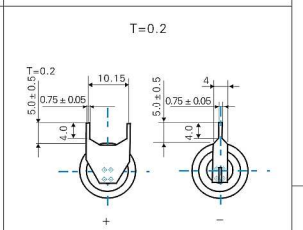
−/3PT



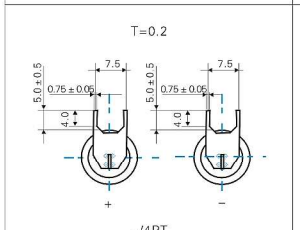
−/3TP



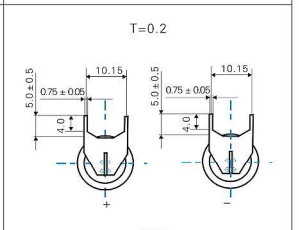
−/3PF



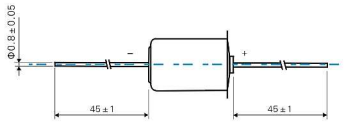
−/3FP



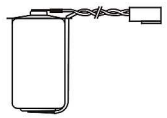
−/4PT



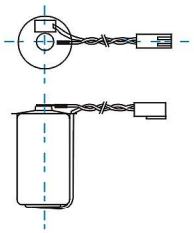
−/4PF



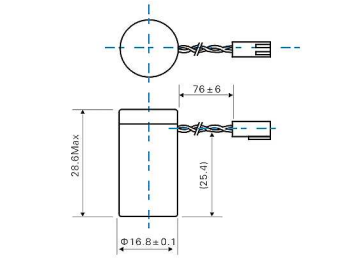
−/P



Connector Type1



Connector Type2



Case Type

Terminals for battery packs(can be customized)