akktronics
The right Lithium Battery Solution

Specification ER14505-4P+HPC1530-LC
Lithium Thionyl Chloride Battery
with Hybrid Pulse Capacitor
http://www.akkutronics.com

3.6V Li-$SOCl_2$ Battery with Pulse Capacitor

ER14505-4P+HPC1530-LC

FOR HIGH PULSE CURRENT

ER14505 Electrical characteristics

Nominal capacity At 23±2℃discharge at constant current 2.0mA until 2.0V cut off, Battery capacity depending on temperature and discharge currents and cutoff voltage changes.	**2400mAh**
Nominal voltage Micro-current discharge platform voltage reference values has to do with battery chemistry system and has nothing to do with the battery model.	**3.6V**
Open circuit voltage The voltage between positive and negative while the current is open.	**≥3.65V**
Maximum continuous current At 23±2℃ the battery can discharge at least the max conti-nuous discharge value which rated capacity 50% can permit.	**100mA**
Maximum pulse discharge current At 23±2℃, battery discharge duration for 3 seconds and stand 27 seconds, it can discharge at least the max pulse discharge value which rated capacity 50% can permit.	**200mA**
Storage condition Stored the battery under recommends condition to make sure effectively battery's performance, the storage temperature or humidity too high will increase battery's self-discharge rate and reduce battery's storage life.	**≤30**℃ **≤75%RH**
Operating temperature Exceed the operating temperature range could lead to battery operating voltage reduction or even a security risk.	**-55~+85**℃
Outline dimension Finished Single cells' standard size	**14.5×50.5mm**
Weight Finished Single cells' max weight	**22.0g**
Self-discharge rate Out of the recommended condition, the self-discharge rate may increase.	**1%**

Key features

- High Energy Density
- High single cell voltage
- Light weight
- High security
- Stable operating voltage
- Wide Operating temperature range
- Low Self-discharge rate
- UN38.3 and ROHS Compliance

Main applications

- Intelligent instruments
- Safe alarm system
- Signal lights and the post indicator transfer
- back-up record power
- Medical equipment
- Wireless and other military equipment
- Active RFID
- Tyre pressure testing system
- GPS system
- GSM system

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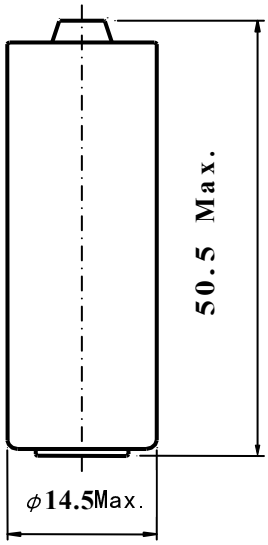
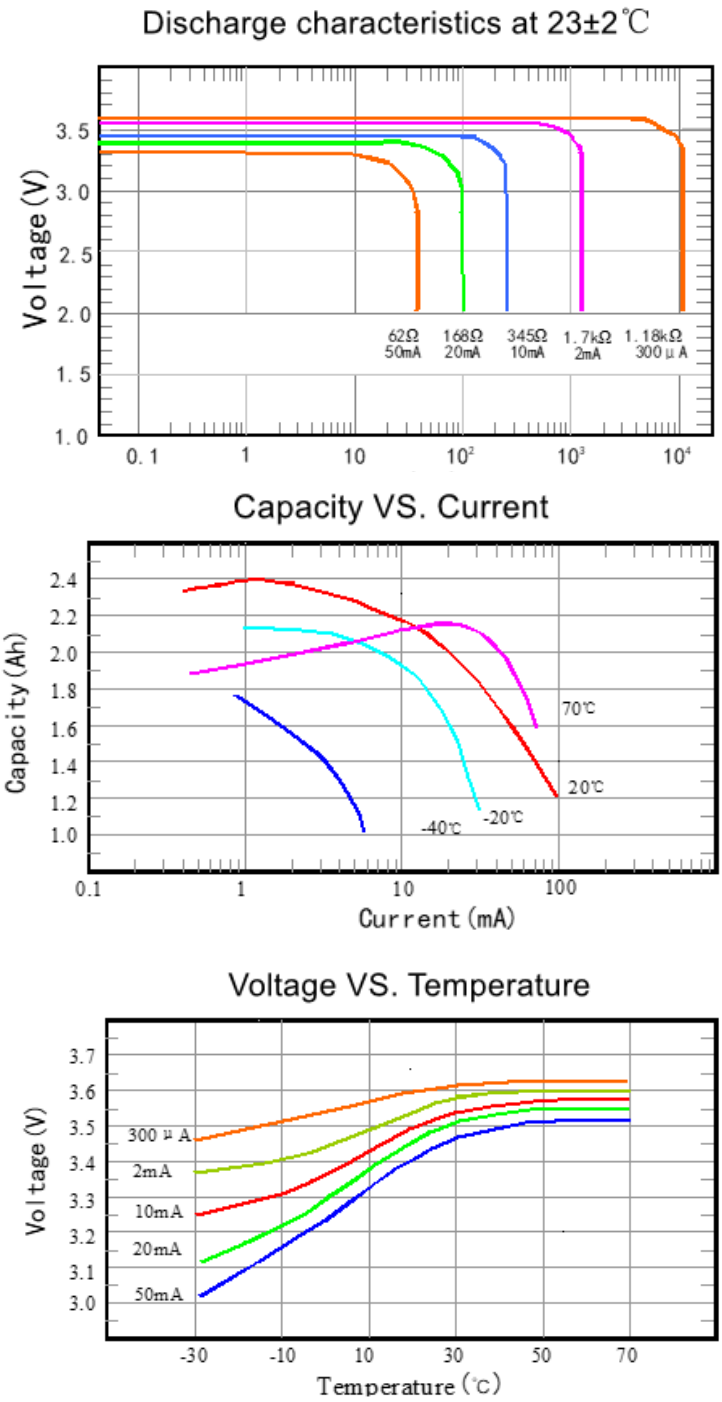
ER14505 Dimension

Unit: mm



ER14505 Discharge Curve



Warning

- Do not connect the positive and negative terminals of the battery.
- Do not place battery into fire
- Do not weld directly battery long time.
- Do not recharge battery.
- Do not force-discharge.
- Do not combine batteries in series or parallel by oneself.
- Do not reverse the positive and negative terminals
- Do not swallow.
- Do not discard.
- Stop immediately use it when serious heating or leakage.
- Before using our products, please read the manual Carefully or contact our Technician.

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HPC1530 Electrical characteristics

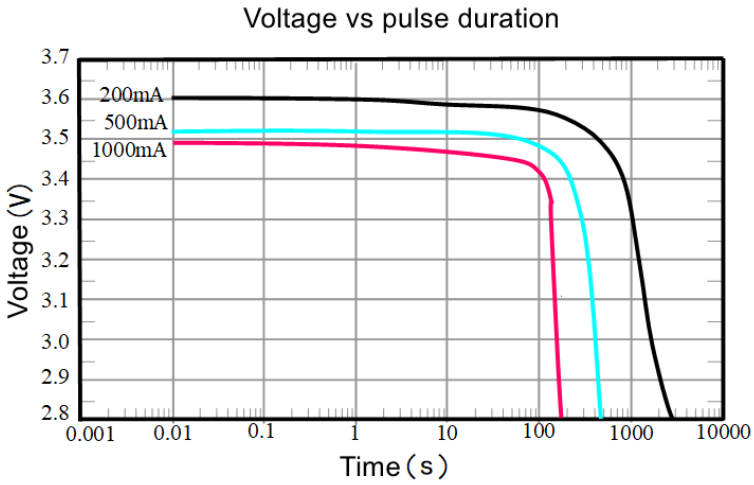
(23±2℃)

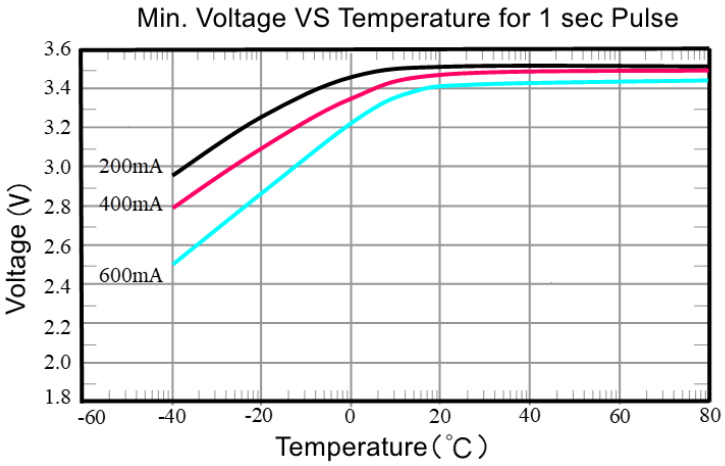
Nominal voltage	**3.67V**
Nominal capacity	**75mAh**
Nominal discharge current	**125mA**
Max. cont. discharge current	**750mA**
Pulse current capability	**3000mA**
Discharge end voltage	**2.5V**
Max. charge voltage	**4.1V**
Nominal charge current	**50mA**
Cell impedance @ 1kHz	**≤120mΩ**
Operating temperature range	**-40~+85℃**
Outline dimension	**Max. 15.1x30.0mm**
Weight	**10.0g**

ER14505-4P+HPC1530-LC Electrical characteristics (23±2℃)

Capacity to 2.5V (@350mA for 10s, interval time 30min)	**9600mAh**
Nominal voltage	**3.6V**
Maximum 1 second pulse to 2.5V	**2000mA**
Maximum pulse length @350mA to 2.5V	**750sec**
Operating temperature range	**-40~+85℃**
Weight	**100g**

ER14505-4P+HPC1530-LC Discharge Curve





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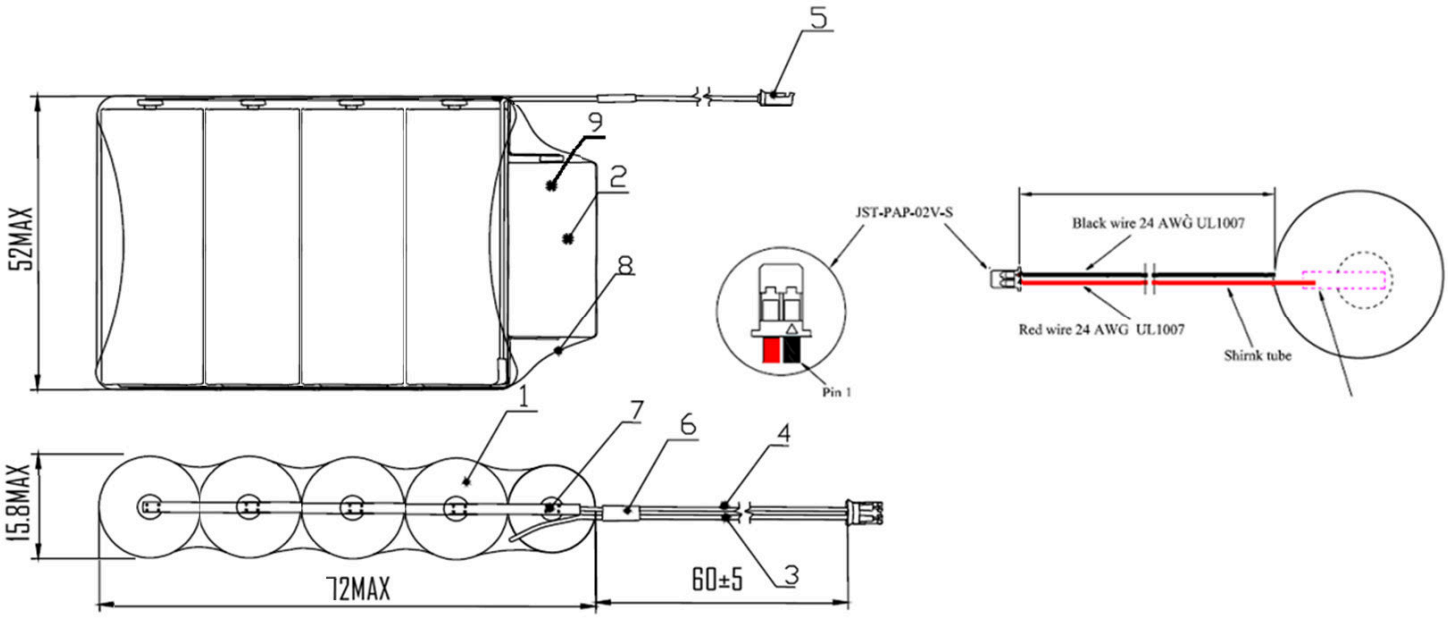
Battery Pack Dimension

ER14505-4P+HPC1530-LC Drawing (3.6V 9600mAh)

unit: mm



No.	Item	Spec / Part No.	Qty
1	Battery	ER14505 3.6V 2400mAh	4
2	Heat Shrink tube		1
3	Wire Black -	UL1007 AWG24	1
4	Wire Red +	UL1007 AWG24	1
5	Connector	JST PAP 02V S	1
6	Black heat shrink tube		1
7	Nickel strip		1
8	Heat Shrink tube		1
9	Super capacitor	HPC1530	1

Please consult with Akku Tronics for further information.