

Lithium- Battery Pack with a protection electronics (PCM single cell monitoring), Protects the battery against overcharge, deep discharge and short circuit.

Applications:

- Automotive
- Industrial
- Sport
- Medical
- Motor Drive Systems
- and others

OEM / ODM service & customized logo available

Pack Specifications	
Nominal Voltage	3.7 V
Capacity (Nominal)	2150 mAh ±3%
Energy	7,955 Wh
Weight	48 ±3 grams
Size (L x W x H) mm	18.65 ±0.5 x 68.5 ±2mm
Operating Specifications	
Operating Voltage	4.20 V to 3.00 V
Charge Voltage	(Max. 4.20 V)
Discharge End Volt.	3.0V
Operating Temperature:	
Discharge	-20°C to 70°C
Charge	0°C to 45°C [50°C] ⁽¹⁾
Max Discharge Current	5 A (Continuous) 6.5 A (Peak)
Max Charge Current	5A @25°C
Storage Specifications	
Storage Temperature	1 year : -20~25°C(1*)
Rh: (0% ~ 75%)	3 months : -20~45°C(1*)
SoC: State-of-Charge ≥ 70%	1 month : -20~60°C(1*)

^[1] with temperature compensated charge

Standard charging method

0.5C CC (constant current) charge to 4.2V, then CV (constant voltage 4.20V) charge till charge current decline to ≤ 0.02C

Transportation

The transport of this battery should be noted that this is a lithium battery (dangerous goods class 9 / UN3480 / packing group Corresponding to, ADR / RID, IATA DGR, IMDG). During transport, do not subject the Batteries or the box(es) to violent shaking, bumps, rain and direct sunlight.

Care and safety recommendations:

Never open, short circuit or put in fire. Do not install backwards. Avoid short circuit with metal objects.

ATTENTION:

Please pay attention to following recommendations:

1. **Recharge batteries immediately after receipt!**, the batteries are delivered with low capacity (< 30%) according to IATA DG Regulations!
2. Charge the batteries to the recommended value before storing them for a long time: State Of Charge between 60% ~ 70% depending on the storage time, Store the battery in a dry place, Temperature (0° ~ +25°C), relative humidity should be less than 75% Rh.
3. Please fully charge the batteries before using! Use only the battery charger specified for this battery type.
4. Do not leave battery in charger over 24 hours.
5. Always avoid deep discharge of the battery.
6. Avoid exposure to high temperatures.
7. Do not disassemble or modify the battery, may cause the battery to generate heat, explode or ignite.
8. Dispose properly used batteries. Dispose it according to the applicable recycling regulations. Contact your city recycling coordinator. Thank you

Overcharge/Overdischarge/Overcurrent Safety Circuits:

The controller IC measures the voltage for each cell (or for each parallel battery block) and shuts off a control switch to either prevent overcharging (if the voltage exceeds the specified voltage range) or to prevent over discharging (if the voltage falls below the specified voltage range). Moreover, the voltage of the control switch is measured on both ends and in order to prevent overcurrent, control switches are shut off if the voltage exceeds specifications.

• The Functions of the Safety Circuits (typical functions)

The voltages listed below are typical values and are not guaranteed. The charge voltage varies according to model number.

1. The Overcharge Safety Function

The charge stops when the voltage per cell rises above 4.25 ± 0.05 V.
 Over charge detection delay time 0.05S-1sec
 The charge restarts when the voltage per cell falls below 4.15 ± 0.05 V.

2. The Overdischarge Safety Function

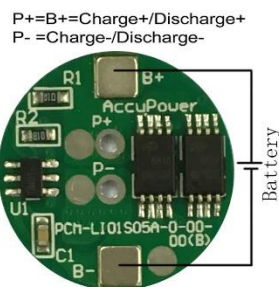
The discharge stops when the voltage per cell falls below 2.80 ± 0.1 V.
 Over discharge detection delay time 10—200mS
 The discharge restarts when the voltage per cell rises above 3.0 ± 0.1 V.

3. The Overcurrent Safety Function

The discharge is stopped when the output terminals are shorted. The discharge restarts when the short is removed.

4. Operating Temperature Range

$-40 \sim +85^{\circ}\text{C}$



Attention: Please fully charge the batteries before using!!!



ATTENTION! Recharge batteries immediately after receipt:



Due to the new IATA Dangerous Goods Regulations since April 2016, the state of charge condition for air transport must not exceed 30% of the nominal capacity!
 If you receive a battery pack with airfreight with 30% charge and it will be sent by air again after storage, the state of charge 30% must be checked every 2 months and recharged according to 30%.