



Lithium-Battery Pack with protection electronics PCM protects the battery against overcharge, deep discharge and short circuit.
For additional external temperature control, a temperature sensor is integrated NTC=10KΩ

Applications

Automotive
Industrial
Medical
Sport
and others



Pack Specifications	
Nominal Voltage	3.6 V
Capacity (Nominal)	13400 mAh ±6%
Energy	48.24 Wh
Weight	192 grams ±5g.
Size (L x W x H) mm	74 x 19,5 x 68.5 ±1

Operating Specifications	
Operating Voltage	3,0 V to 4.2 V
Charge Voltage	(Max. 4.20 V)
Discharge End Volt.	3.0V
Operating Temperature: Discharge Charge	-20°C to 50°C 0°C to 45°C
Max. Discharge Current	2A (continuous) 4A (Peak)
Max. Charge Current	2A / Peak 3A

Storage Specifications	
Storage Temperature	6 months: -20~25°C(1*)
Relative humidity (45-75%)	3 months: -20~45°C(1*)
SoC: State-of-Charge ≥ 70%	1 month: -20~60°C(1*)

Note (1): If the cell is kept as ex-factory status (≤ 30% of charge), the capacity recovery rate is more than 80%.

Standard charging method

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

Transportation

Transport according to the current regulations: ADR / RID / ADN / IATA / IMDG
Class: 9 / UN-Number: UN3480
Shipping name: Lithium ion batteries
Environmental hazards / Marine pollutant: No

Care and safety recommendations:

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

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 overdischarging (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.
The charge restarts when the voltage per cell falls below 4.05 ± 0.05 V.

2. The Overdischarge Safety Function

The discharge stops when the voltage per cell falls below 2.50 ± 0.1 V.
The discharge restarts when the voltage per cell rises above 2.6 ± 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.

**ATTENTION! Recharge batteries immediately after receipt:**

Please pay attention to following recommendations:

1. Please fully charge before using it with the suitable charger!!!
2. Always avoid Deep discharge of the battery
3. Charge the battery before longer Storage.
4. Use only the battery charger specified for this battery type.
5. Do not leave battery in charger over 24 hours.
6. Keep it in a cool and dry place.
7. Avoid exposure to high temperatures.
8. Do not disassemble or modify the battery, may cause the battery to generate heat, explode or ignite.
9. Dispose properly used batteries. Dispose it according to the applicable recycling regulations. Contact your city recycling coordinator. Thank you.
10. If the battery will be stored before use - then charge the battery with the suitable charger up to 70% for long-term storage, the battery must be recharged again to 70% after a maximum of four months.

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

NOTE:

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