









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

Applications Automotive Industrial

Sport
Medical
and others



UN 38.3 Tested IEC 62133 Tested

Pack Specifications		
Nominal Voltage	25.4 V	
Capacity (Nominal)	10400 mAh @ 0.2C discharge	
Energy	264 Wh	
Weight	1430 grams ±50	
Size (L x W x H) mm	140 x 90 x 70 ±2	
Size (L x vv x H) min	140 X 90 X 70 ±2	

Operating Specifications	
Operating Voltage	29.4 V to 21.0 V
Charge Voltage	(Max. 29.40 V)
Discharge End Volt.	21.0V
Operating Temperature: Discharge Charge	-20°C to 60°C 0°C to 45°C
Max Discharge Current	10 A (Continuous) 30 A (Peak)
Max Charge Current	5 A @25°C (Peak10A)

otorage opecifications		
	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*)	

Storage Specifications

Note (1): If the cell is kept as ex-factory status (50% of charge), the capacity recovery rate is more than 80%

Standard charging method

0.2C CC (constant current) charge to 29.40V, then CV (constant voltage 29.40V) charge till charge current decline to \leq 0.02C

Transportation:

Transport according to the current regulations: ADR / RID / ADN / IATA / IMDG

Battery over 100Wh / 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.

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 50% ~ 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

Pack Type: AP2510-0

Specifications

7S4P Lithium Ion Rechargeable Battery Pack

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. 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 $2.80 \pm 0.1 \text{ V}$. The discharge restarts when the voltage per cell rises above $3.0 \pm 0.1 \text{ V}$.

3. The Overcurrent Safety Function

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

Attention: 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% (this corresponds approximately to an idle voltage for this Battery-pack of 24.70V to 25.00V) must be checked every 2 months and recharged according to 30%.