

Battery Box in a compact design
Protection Classification IP 54 to DIN EN 60529 (VDE 0470)



Connectors:

Main line: cable with PP-connector + Red and – Black.

http://www.accupower.at/products_connector.php

Interface connector: 4 pin redel plastic circular push-pull latching connector

Lithium-Battery Pack with protection electronics (PCM single cells monitoring), protects the battery against overcharge, deep discharge and short circuit, Implemented cell balancing, with interface for service purposes (number of cycles, capacity, temperature, etc.) and **Smart LED energy Indicator**.

Applications

- Automotive
- Testing equipment
- Industrial
- Medical
- Sport , and others

State-of-Charge LED-Indicator

| | |
|-------------------|---------------------------------|
| F : Full | L : Low |
| H : High | ⚡ : Battery nearly empty |
| M : Medium | ⚡* : Charge the battery |

Pack Specifications

| | |
|---------------------|---------------------|
| Nominal Voltage | 25.6 V |
| Capacity (Nominal) | 11400 mAh |
| Energy | 292 Wh |
| Weight | 1650 grams |
| Size (L x W x H) mm | 167 x 100 x 78.5 ±1 |

Operating Specifications

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

Storage Specifications

| | |
|---|---|
| Storage Temperature | 1 year : -20~25°C(1*) |
| Relative humidity (45-75%) | 3 months : -20~45°C(1*) 1 month : -20~60°C(1*) |
| Relative humidity should be less than 75%Rh | |

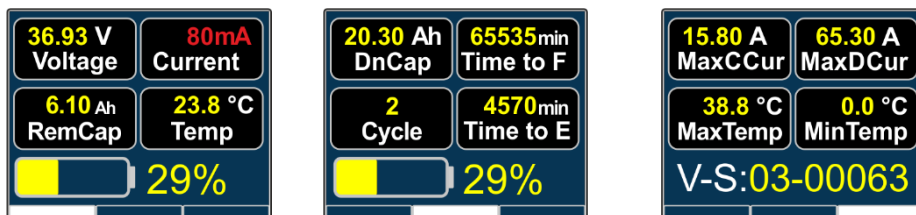
Note (1): If the cell is kept as ex-factory status (≤ 30% of charge), the capacity recovery rate is more than 80%.

Standard charging method

0.5C CC (constant current) charge to 29.40V, then CV (constant voltage 29.40V max.) charge till charge current decline to ≤ 0.02C

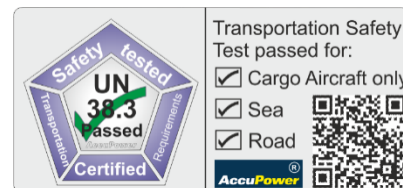
Embedded battery management with data monitoring and displaying

Lithium-Battery Pack with interface for service purposes provide battery information (voltage, remaining capacity, number of cycles, full charge capacity, temperature, average current, etc). This data can be displayed through the interface connection via PC or with the appropriate LCD display unit.



Transportation

The transport of this battery should be noted that this is a lithium battery with more than 100 Wh (dangerous goods class 9 / UN3480 / packing group II, ADR / RID, IATA DGR, IMDG). During transport, do not subject the Batteries or the box(es) to violent shaking, bumps, rain and direct sunlight. Keep the cell(s) at a half-charged state.



Care and safety recommendations:

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

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

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

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 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:



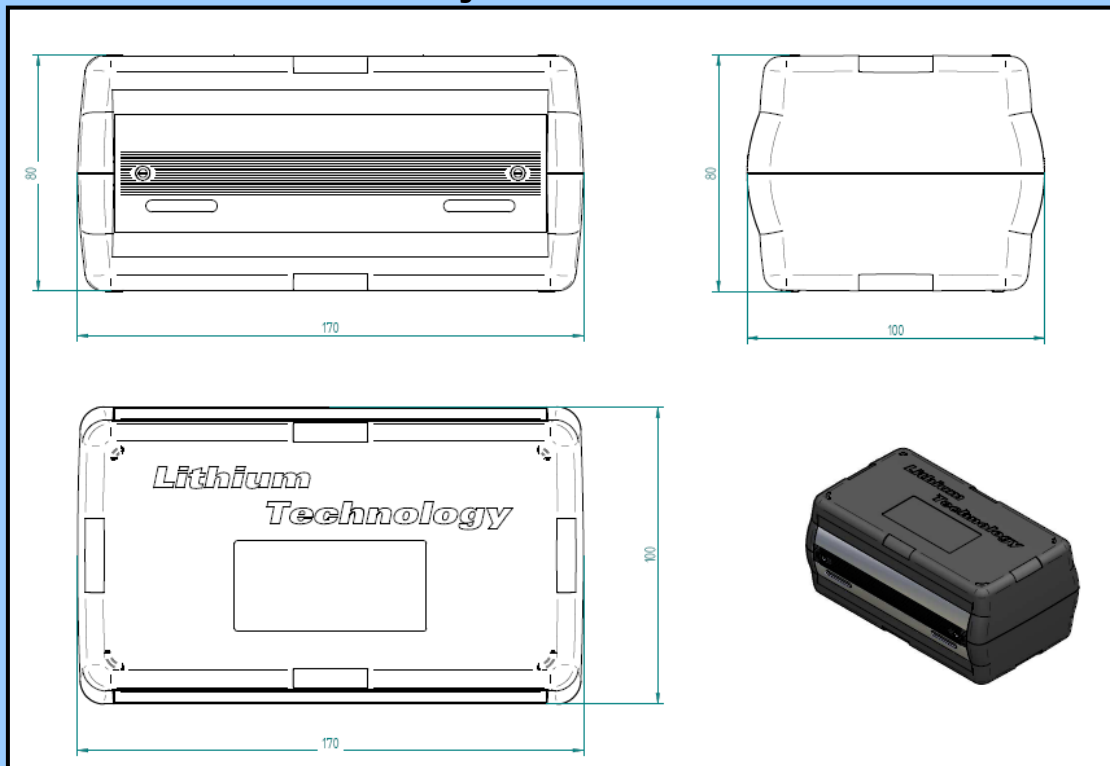
Due to the new IATA Dangerous Goods Regulations since April 2016, the state of charge condition for air transport must not exceed 30% of the nominal capacity!

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%.

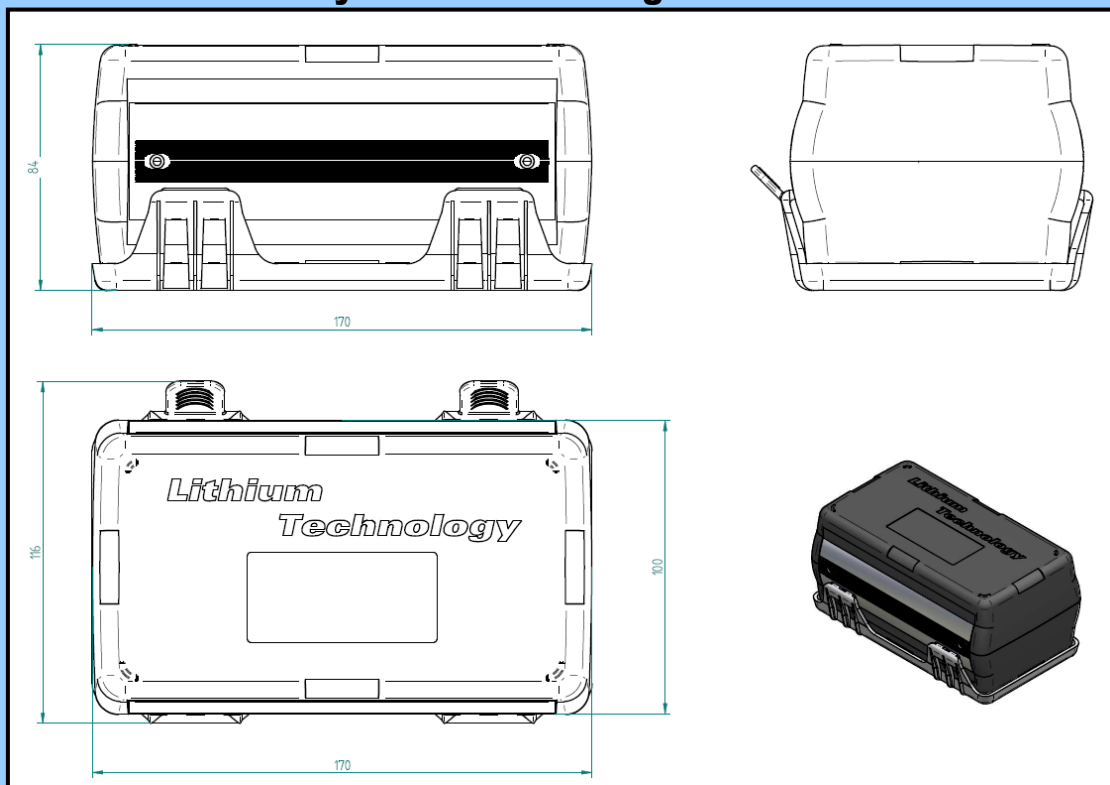
Mechanical specifications

AccuPower Lithium Technology Designed for Demanding Applications

Battery Box Dimensions



Battery Box with Holding down device

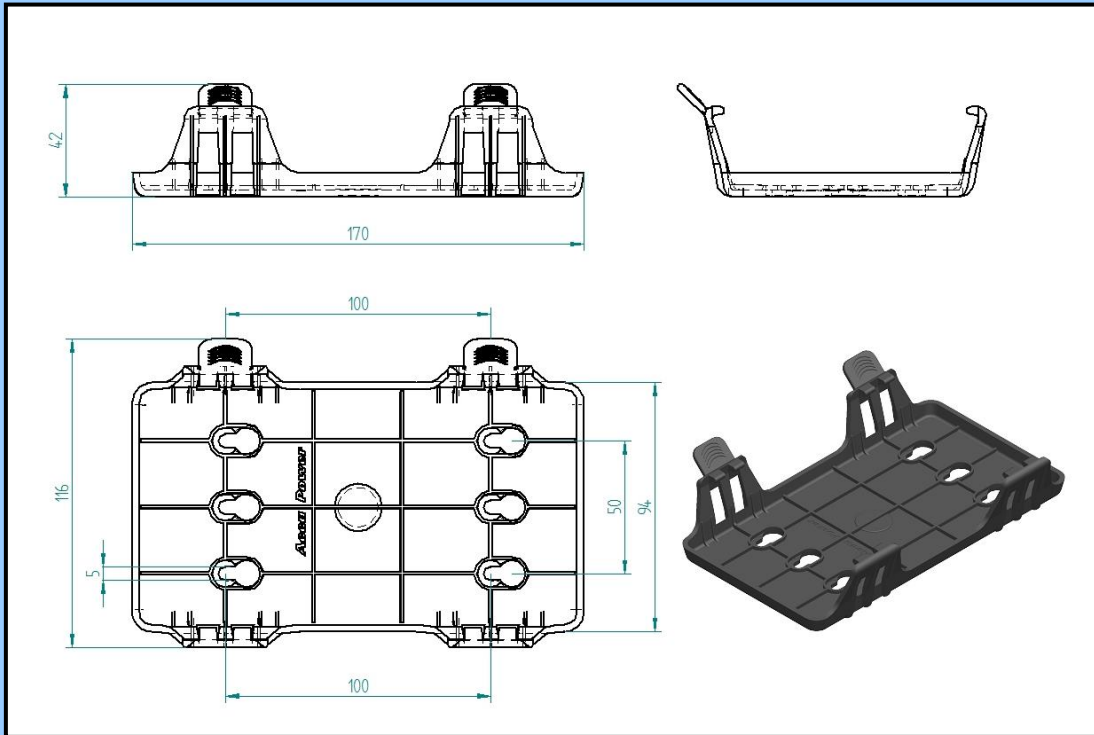


The Battery Box is fabricated from a durable Plastic material for optimal resistance to shock, vibration and resistance to mechanical stress. robust construction, snap-fit screwless assembly

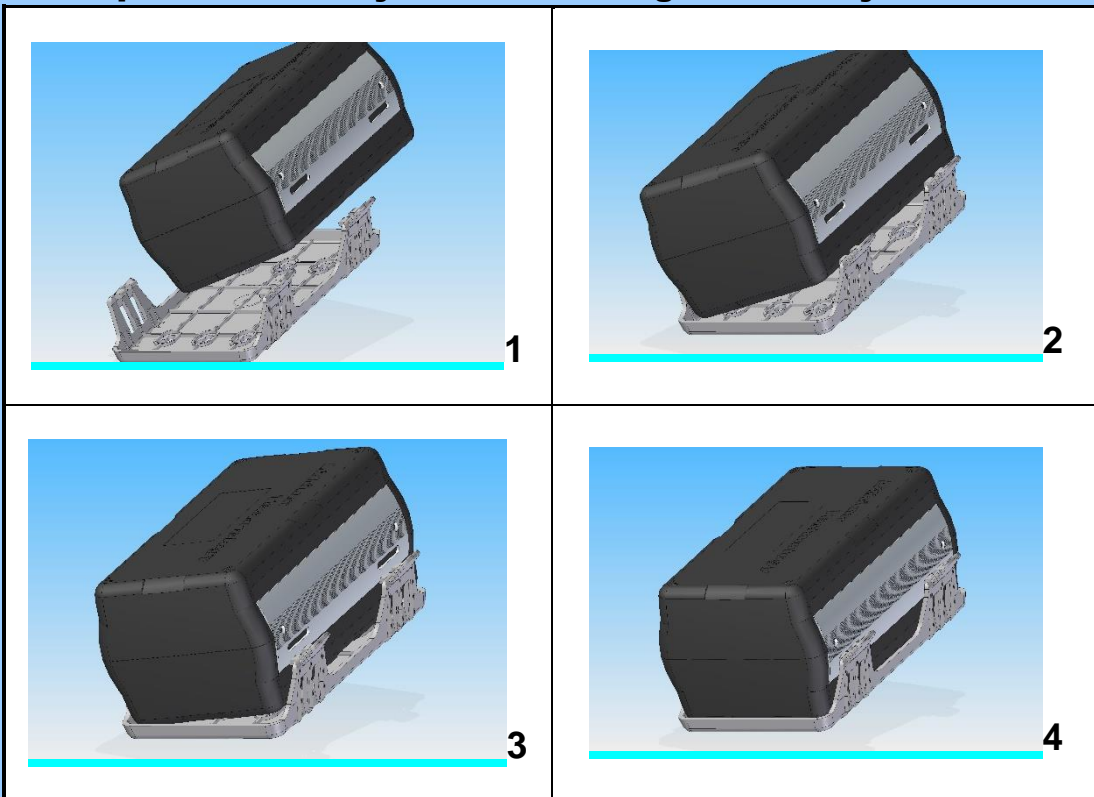
OEM / ODM service & customized logo available

AccuPower Lithium Technology Designed for Demanding Applications

Holding down device work with snapping locking-system



the pictures show you how to fixing the battery on holder



The Holder is optional and not included!!

AccuPower is offering an OEM/ODM service - where customers can customize their own design.