User Manual

BL-LiPoB

Large Li-Poly Charging / Storage Bunker
100% Stainless Steel

Features

- Large Lithium Poly battery bunker
  - 1.25 Kg all up weight
  - Size N: top: 320 x 260 x 63 mm (12.6” x 10.2” x 2.5”)
  - Size D: top: 300 x 152 x 95 mm (11.8” x 6.0” x 3.7”)
  - 0.6 mm thick base and top, 1.0 mm thick locking sliders
- Operation
  - Put batteries in, with cables through round holes
  - Put lid on top and slide sliders in flush with edges
    - Sliders act to lock the lid in case of Li-Poly explosion
    - Sliders safely guide away flames and smoke
- Incl. ***CVS*** technology (fire ***C***ontainment, smoke ***V***enting ***S***trategy)
- Stainless Steel starts to melt at 1,400 C (2,552 F)
  - x3 the melting point of aluminum!

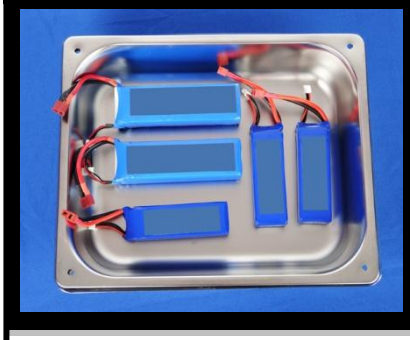
Contents

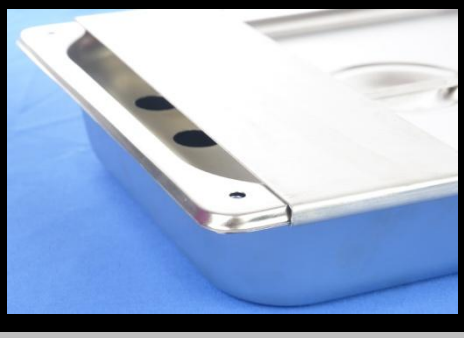
- Lower tray base
- Upper tray lid with cable access holes and smoke venting slit
- x2 locking sliders (1.0 mm thick)
- x4 Thumb screws (optional to use)

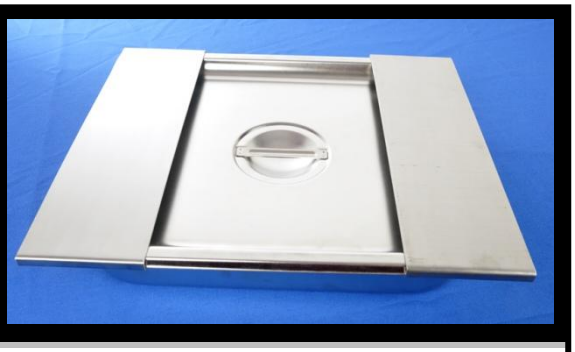
Very easy, in the field, slide & lock, or thumb screws for long storage or in case of lost sliders

BL-LiPoBN (320 x 260 x 63 mm)

Base size 280 x 220 x 63 mm (11” x 8.7” x 2.5”)







E.g. Large size is 130 x 40 x 30 mm
Small size is 100 x 30 x 22 mm

Slider with cable holes visible underneath. Slide slider to full left to protect fire from escaping

Final mounting for normal every-day use (Locking sliders flush with tray sides)

X2 complete units stacked for shipment

Long term storage with locking sliders AND thumb screws installed

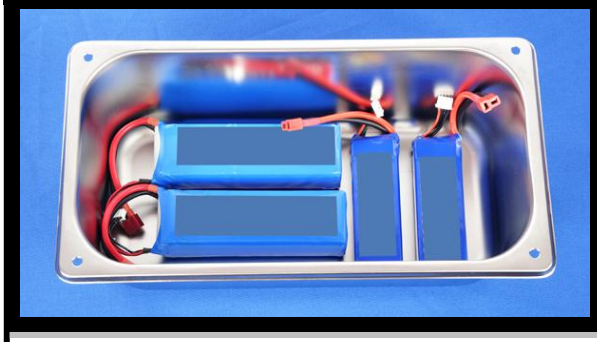
Easy stacking for multiple unit shipments

Easy stacking for multiple unit shipments

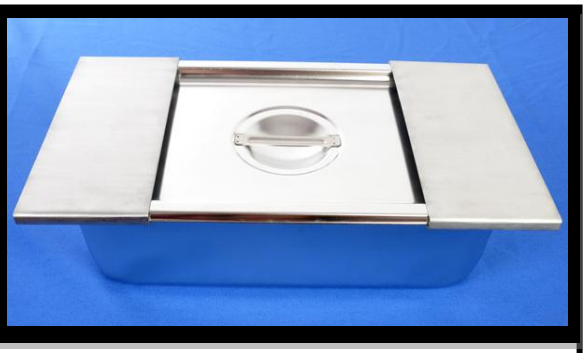
Note: Replace thumb screws with pad locks (not supplied) to lock down / tamper proof

Deep Size version (D):

BL-LiPoBD (300 x 152 x 95 mm) *Base size 280 x 125 x 95 mm (11" x 4.9" x 3.7")*



Extra depth for extra LARGE Batteries, or two layers



E.g. Large size is 130 x 40 x 30 mm
Small is 100 x 30 x 22 mm
(Room ontop for another layer of the same)

Final configuration for normal every day use (Locking sliders flush with tray sides)

Optional Locking thumb screws for extra secure long term storage. Add pad lock (not supplied) to fully lock

Venting holes shown under slider
*(**CVS** technology, **C**ontainment, smoke **V**enting **S**trategy)*

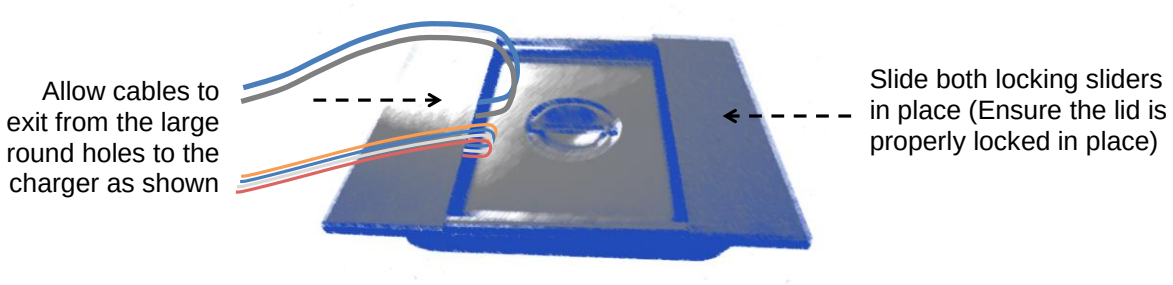
Complete ready assembled system. No fiddling around, no sharp edges

Note1: Fine detail of venting holes / design may change to posted specifications
Note2: Sliders are 100 % stainless steel, in brushed hairline finish

Installation and Use

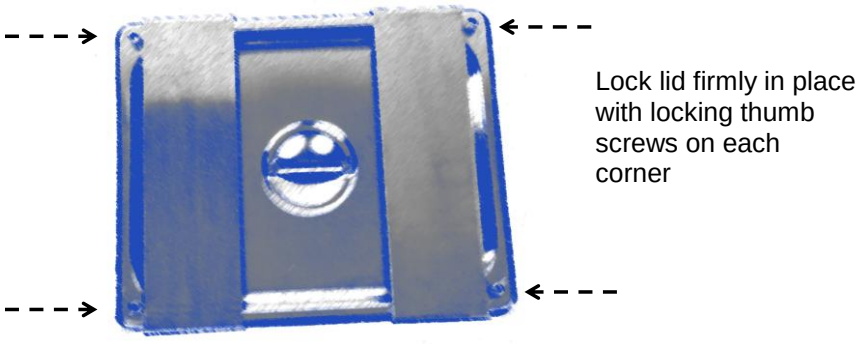
Charging

1) *Place **ONLY** the battery or batteries you need to charge into the bunker*
2) *Ensure the batteries have female plugs to prevent accidental short circuit*
3) *Thread the cables through one or two of the large round holes of the bunker lid, and connect to your battery charger (Possibly using extension cables when using low current charging)*
4) *Place the bunker lid onto the tray, slide on the steel sliders, ensuring they cover the holes. The sliders should be flush with the edge of the tray with the battery cables exiting towards the centre of the tray lid*
5) *Start the charging by following battery and charger manufacturers' guidelines*



Storage

1) *Place all batteries you need to store into the bunker (following guide-lines as to battery manufacturer's recommendations regarding battery storage charge)*
2) *Ensure the batteries have female plugs to prevent accidental short circuit*
3) *Place the bunker lid onto the tray, slide on the steel sliders, ensuring they cover the central lid holes. The sliders should be slid in to allow the holes at each corner to be visible*
4) *Screw the lid in place with the thumb screws provided*



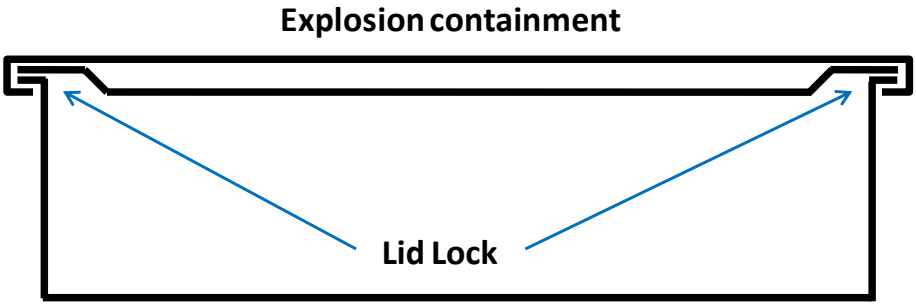
Warnings:

The BL-LiPoB battery bunker systems are designed to drastically minimize any catastrophic events caused by explosion or fire from Lithium Polymer batteries. However care must be taken at all times during charge, discharge and storage of these batteries. Battery manufacturers' guidelines should be adhered to at all times. ***Do not place anything on top of the battery bunker, or in close proximity as this could ignite in the case of a serious battery problem. Furthermore, it is recommended to place the battery bunker on a fire resistant surface such as a tile or concrete floor****. If a fire does occur the battery bunker will become very hot and should only be moved if absolutely necessary and with great care.*

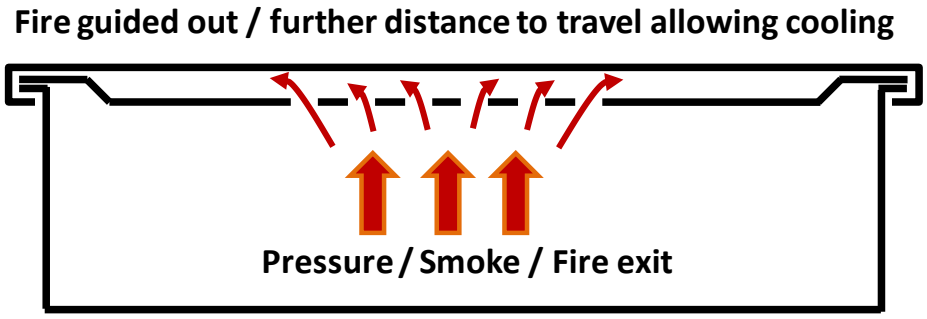
Bluelight Technologies accepts no responsibility for any damage to property, or injury to any person or persons caused by the use, incorrect or otherwise, of this product. It is the user responsibility to confirm correct use, and to act responsibly at all times.

CVS technology (fire *C*ontainment, smoke / flame *V*enting *S*trategy)

Step 1 : *Once an internal fire has started LiPo batteries generally blow out the outer casing. Normally an explosion will result from each cell within the battery so it's important to have a secure lid otherwise damage from the explosion / flying lid can result as well as loss of fire containment.*



Step 2 : *Can NOT have a totally secure lid otherwise the Lipo cell explosions could create a bomb effect, possibly violently blowing out the container from its weakest point. Hence vent holes are needed to release pressure and at the same time vent smoke and flames out.*



Step 3 : *Exiting flames hit a 1mm thick Steel top (slider) and are vented away towards the inside of the box, away from external surroundings. Smoke and flames are given additional distance to travel aiding in cooling.*