



## SafeCASE Assembly & Use Instructions

### 1.0 Purpose

---

- 1.1 These instructions describe the process for the assembly, safe handling, storing, and shipping of KULR SafeCASEs.

### 2.0 Responsibilities (disclaimer)

---

- 2.1 The customer is responsible for proper handling, use, storage, and shipping. Catastrophic damage to persons, facility and equipment may occur because of failure to handle, ship, or store the contents in the SafeCASE appropriately. KULR is detached from liability for the customer's mishandling of SafeCASEs.
- 2.2 The customer must comply with all state, local and federal regulation regarding the shipping of KULR SafeCASEs. KULR is detached from liability for the customer's failure to comply with all regulations.

### 3.0 Definitions

---

- 3.1 SafeCASE: A case designed to help protect against the risk of thermal runaway with up to 2.5 kWh energy rating in lithium-ion batteries.
- 3.2 Thermal Runaway Shield™ (TRS): A pouch containing KULR proprietary coolant formula to help protect against the risk of thermal runaway.

### 4.0 Equipment/Software

---

- 4.1 SafeCASE
- 4.2 1 Inner Case Top Pouch
- 4.2.1 Ablative Shield (Hard Plate Side of Pouch)
- 4.2.2 TRS (Soft Side of Pouch)
- 4.3 Blanket
- 4.4 Harness (Straps and Buckles)

### 5.0 Instructions

---

**NOTE: SafeCASE Requirements for storage and shipping:**

- Contents **must not exceed 2.5 kWh** energy rating.
- Contents + SafeCASE **must not exceed** a total weight of **70 lbs.**
- Contents **must only include** lithium-ion cells/batteries.

- 5.1 SafeCASE Use:
- 5.1.1 Always confirm with Sales associate on end use of the SafeCASE.
- 5.1.2 If your end use-case for the SafeCASE is long term storage or internal-use follow **Sec. 5.2.**
- 5.1.3 In the event of Thermal Runaway, if all requirements and steps have been followed, SafeCASE will help contain Thermal Runaway event.

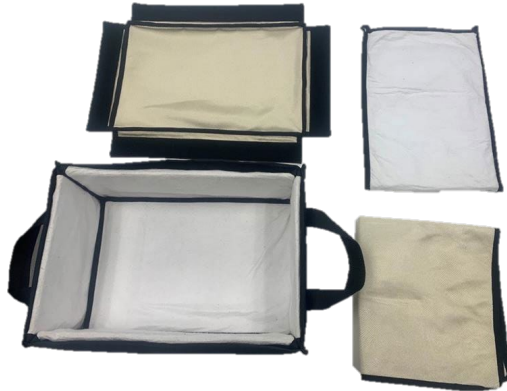
- 5.1.4 In the event of a Thermal Runaway, follow local, state, and federal laws. Do not attempt to handle or touch the SafeCASE, maintaining a minimum distance of 50 feet.
- 5.1.5 After a Thermal Runaway event, follow the local, state, and federal laws on safely and correctly disposing of lithium-ion cells/batteries.

**SafeCASE for battery prep and packaging for long term battery storage and shipping.**

5.2 KULR SafeCASE should arrive pre-assembled and ready to use.

Contents include (Fig 1):

- 5.2.1 1x Single wall corrugated box
- 5.2.2 1x SafeCASE w/removable lid
- 5.2.3 1x Inner Case Top Pouch
  - 1x TRS pouch
  - 1x Ablative shield (barrier hard plate)
- 5.2.4 1x Fire resistant blanket
- 5.2.5 1x Strap harness



(Fig 1)

5.3 Battery Prep

- 5.3.1 Discharge battery pack/cells to 30% SOC or less if possible.
- 5.3.2 Cover **all exposed** battery terminals with non-conductive tape or place cells/batteries in a plastic bag if needed. (Fig 2)
- 5.3.3 Place cells/batteries on top of fire-resistant blanket and wrap the battery pack in the blanket. (Fig 3)



(Fig 2)



(Fig 3)

## 5.4 SafeCASE Use

5.4.1 Open SafeCASE and visually inspect all contents for damages before and after every use.

5.4.2 Insert battery pack into case once prepped. (See Section 5.3) (Fig 4)



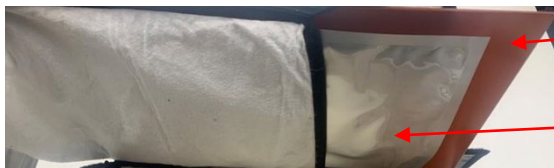
(Fig 4)

5.4.3 Fill excess space with small bubble wrap to prevent contents from shifting during transportation. **NOTE: Only bubble wrap is permitted for internal packing.** (Fig 5)



(Fig 5)

5.4.4 **Important:** Place Inner Case Top Pouch on top of battery with TRS (soft side of pouch) facing the battery. TRS should be faced down covering contents. Ablative shield should be on top. (Fig 6 & 7)



(Fig 6)



(Fig 7)

5.4.5 Close lid and confirm velcro mating material is secured firmly around entire SafeCASE. (Fig 8 & 9)



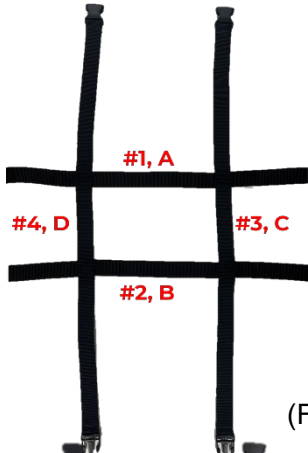
(Fig 8)



(Fig 9)

5.4.6 Place the strap harness on a level surface with the labels facing downwards and position the SafeCASE at the center of the harness. (Fig 10 & 11)

5.4.7 Fasten the buckles securely in the sequence marked A, B, C, D. (Fig 12 & 13)



(Fig 10)



(Fig 11)



(Fig 12)



(Fig 13)

## 6.0 Opportunities and Risks

---

- 6.1 Necessary Precautions (both for purpose of conforming product and for safety)
- a. Ensure packaged to protect pouches from sharp edges.
  - b. Ensure blanket is tucked on all sides (no gaps).
  - c. Ensure correct orientation of top pouch with soft side facing in toward batteries and ablative shield side facing up toward case lid.
  - d. Ensure max capacity is not exceeded both in terms of kilowatt hours and weight.
  - e. Ensure correct shipping method, box type, labels, permit numbers are used. (refer to [Special Permit Shipping Checklists](#))
  - f. Recommend batteries/cells be discharged to 30% SOC or less.
  - g. Recommend SafeCASE be visually inspected after each use, and allowed to dry out if any condensation is present.