



Application Notes
SafeCASE - SLEEVE
Assembly & Use Instructions

1.0 Purpose

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

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 SLEEVE appropriately. KULR is detached from liability for the customer's mishandling of SLEEVEs.
- 2.2 The customer must comply with all state, local and federal regulation regarding the shipping of KULR SLEEVEs. KULR is detached from liability for the customer's failure to comply with all regulations.

3.0 Definitions

- 3.1 SafeCASE - SLEEVE: A case designed to help protect against the risk of thermal runaway with up to 300 Wh (0.3 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 - SLEEVE
- 4.2 1 Inner Case Pouch
- 4.2.1 2 TRS Pouches

5.0 Instructions

NOTE: SLEEVE Requirements for storage and shipping:

- Contents **must not exceed 300 Wh/ 0.3 kWh** energy rating.
- Contents + SLEEVE **must not exceed** a total weight of **10 lbs**.
- Contents **must only include** lithium-ion cells/batteries.

5.1 SLEEVE Use:

- 5.1.1 Always confirm with Sales associate on end use of the SLEEVE.
- 5.1.2 If your end use-case for the SLEEVE 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, SLEEVE 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 SLEEVE, 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.

SLEEVE for battery prep and packaging for long term battery storage and shipping.

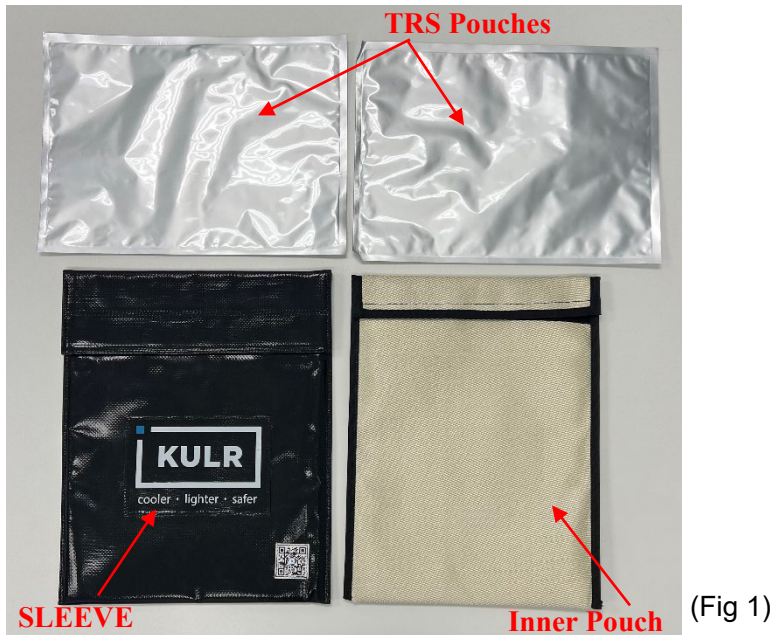
5.2 KULR SLEEVE should arrive pre-assembled and ready to use.

Contents include (Fig 1):

5.2.1 1x SafeCASE - SLEEVE

5.2.2 1x Inner Pouch

5.2.3 2x TRS Pouches



5.3 Battery Prep

5.3.1 Discharge battery pack/cells to 30% SOC or less if possible.

5.3.2 Ensure all sharp edges of the battery/laptop are covered with non-conductive tape or packing material to protect TRS.

5.4 SLEEVE Use

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

5.4.2 Open velcro flap on Inner Pouch and identify all three inner sections. (Fig 2 & 3)



(Fig 2)

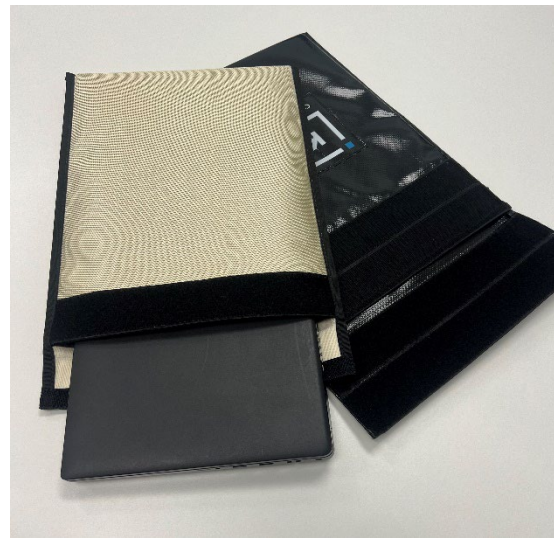


(Fig 3)

- 5.4.3 Ensure TRS Pouches are in each inner & outer sections of the Inner Pouch. (Fig 4)
- 5.4.4 Insert battery pack/laptop into middle section of Inner Pouch once prepped. (Section 5.3) (Fig 5)



(Fig 4)



(Fig 5)

- 5.4.5 Close velcro flap to Inner Pouch with battery and TRS inside. Then place Inner Pouch inside of the SLEEVE and secure velcro. (Fig 6 & 7)



(Fig 6)



(Fig 7)

6.0 Opportunities and Risks

- 6.1 Necessary Precautions (both for purpose of conforming product and for safety)
- a. Ensure correct position of TRS within Inner Pouch.
 - a. Take care to fully Inner Pouch to avoid catching on velcro.
 - b. Ensure packaged to protect pouches from sharp edges.
 - c. Ensure max capacity is not exceeded both in terms of kilowatt hours and weight.
 - d. Ensure correct shipping method, box type, labels, permit numbers are used. (refer to [Special Permit Shipping Checklists](#))
 - e. Recommend batteries/cells be discharged to 30% SOC or less.
 - f. Recommend SLEEVE be visually inspected after each use, and allowed to dry out if any condensation is present.