



PRODUCT DESCRIPTION

KULR’s patent pending SafeCASE is a DOT permitted Passive Propagation Resistant (PPR) storage and transportation system for batteries. It is designed to mitigate thermal runaway, providing safe and sustainable storage and transportation for lithium-ion cells and battery packs that are up to 2.5kWh per case and utilizes KULR’s patented Thermal Runaway Shield (TRS) technology. It is available in multiple sizes and can be customized upon request.

FEATURES AND BENEFITS

- DOT approved for ground transportation
- Up to 2.5kWh per case
- Reusable
- Sustainable
- Safe nontoxic construction

TYPICAL APPLICATIONS

SafeCASE can be customized to fit any application within the rated energy limit but is typically used for lithium-ion cell/battery storage, transportation, and DDR/hazardous li-ion battery recovery and recycling.

TYPICAL PROPERTIES

PROPERTY	TYPICAL VALUE	TEST METHOD
External Case		
Color	Black	Visual
Maximum Operating Temperature	1000°C	Material Prop
TRS		
Construction	Encapsulated Coolant	N/A
Maximum Energy Rating	Up to 2.5KWh (Standard Size)	DOT Approved TR Test ²
¹ Product Assembly Thickness	2 mm	Micrometer
¹ Tensile Strength (at break)	>14 lbs	ASTM D882
¹ Tear Strength (375F;26psi; 1 sec)	>1.7lbs	ASTM689
Seal Strength (375F;26psi; 1 sec)	12 lbs/in	ASTM D882
¹ Puncture Strength	>25 lbs	TMS 101-C, Method A

¹For further information see TRS Technical Data Sheet, ²DOT test performed by KULR to receive permits #21139,21167,21193



PROPERTY	TYPICAL VALUE	TEST METHOD
Ablative Reinforcement		
Tensile Strength	>80MPa	ASTM D638
Compression Strength	>180MPa	ASTM D695
Flexural Strength	>80MPa	ASTM D790

PRODUCT	DIMENSIONS	RATING	INTERNAL DIMENSIONS	EMPTY WEIGHT	MAXIMUM WEIGHT	ABLATIVE REINFORCEMENT
K-KSC-000002	19"W x 12.5"D x 8.5"H	2.5 kWh	17.5"W x 11.5"D x 7.5"H	8.69lbs	66lbs	Yes
K-KSC-000009	20"W x 16.5"D x 6.5"H	1.5 kWh	16.5"W x 10.5"D x 6.5"H	8.69lbs	66lbs	Yes

AVAILABILITY

SafeCASE can be engineered in custom sizes. Please contact KULR Technology Group for additional information.

DISCLAIMER

Data on this Technical Data Sheet (TDS) are typical values and for reference only. The information provided in this TDS, including but not limited to the recommendations for use and application of the product, are based on our knowledge and experience of the product. The product can have a variety of different applications, as well as differing working conditions and environments that are beyond our control. Factors or events that could cause actual results to differ may emerge from time to time, and it is not possible for us to predict all of them. We cannot guarantee future results, performance or achievements. Furthermore, no representations or warranties are made as to the accuracy or reasonableness of any assumptions on which the data or information is based.

This product is not intended for use with any products containing lithium metal. KULR Technology Group, Inc. is, therefore, not responsible or liable for the suitability of our products for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you conduct your own prior trials to confirm such suitability of our product for your use and application and within your working conditions and environments.