TECHNICAL DATA SHEET

KULR ONE 635SP

March 2023

PRODUCT DESCRIPTION

The KULR ONE 635SP battery pack is a groundbreaking solution that is driving the worldwide shift towards sustainable electrification. This innovative design offers a blend of safety, performance, intelligence, modularity, and reliability, making it ideal for the most demanding applications.

FEATURES AND BENEFITS

- Safety - Thanks to KULR Technology's Thermal Runaway Shield (TRS) technology, both KULR ONE and KULR ONE SPACE offer industry-leading passive propagation resistance (PPR), ensuring maximum safety for high-reliability aerospace and defense applications.
- Performance - Utilizing top-quality and high-performing 21700 cells from North American sources, this battery pack offers up to 635Wh of pack energy and fast charge and discharge capabilities, delivering exceptional performance for the most demanding applications.
- Intelligence - Integrated with KULR Technology's exclusive CellCheck digital battery safety system, battery performance and health data can be transmitted straight to the cloud, providing the ability to track, assess and forecast the life expectancy of your application.
- Modularity - With a design that enables easy removal and re-use across multiple applications, KULR ONE provides a flexible, standardized battery pack solution that can be used in a wide range of devices and environments.
- Reliability - Designed by engineers with extensive experience in developing battery packs for manned spaceflight, KULR ONE is manufactured using the highest-quality materials and rigorously tested designs to ensure exceptional reliability and performance.
- Customization - With world-class battery design engineers and manufacturing capabilities, KULR Technology can customize battery packs to meet the unique needs of individual applications, including various form factors and performance characteristics, delivering unparalleled quality and reliability.

TYPICAL APPLICATIONS

High reliability applications in e-mobility, home energy storage, renewable energy, aerospace and defense, and other industrial applications.

TYPICAL PROPERTIES

Feature	KULR ONE 635SP
Cells	21700
Cell Count	42
Pack Configuration	3P-14S
Pack Energy	635 Wh
Pack Max Capacity	12.6 Ah
Pack Max Voltage	50.4 V
Maximum Rated Charge	2 C (25.2 A)
Sustained Discharge Rate	5 C (135 A)
Cycles for Max Performance (80%)	450
CellCheck	Yes
Battery Management System (BMS)	Daily Smart BMS
Housing Construction	Injection Mold
Pack Mass	4 kg
Target Gravimetric Energy Density	160 Wh kg^{-1}
Target x, y, z Dimensions	41.2 cm x 7.4 cm x 10.2 cm
Designed With Intent To Satisfy 20793	Yes

AVAILABILITY

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.

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