



## PRODUCT DESCRIPTION

KULR ONE 100S is a revolutionary battery pack for high reliability aerospace and defense applications. This new and innovative design brings a combination of safety, performance, intelligence, modularity and reliability for the world's most demanding applications.

## FEATURES AND BENEFITS

- **Safety** - Using KULR Technology's proprietary Thermal Runaway Shield (TRS) technology, KULR ONE & KULR ONE SPACE offer industry leading passive propagation resistance (PPR)
- **Performance** - Utilizes top quality and performing 21700 cells that offer 635Wh of pack energy and fast charge and discharge capability
- **Intelligence** - Integrated with KULR Technology's proprietary CellCheck digital battery safety system, KULR ONE sends battery performance and health data directly to the cloud, so you can monitor, analyze and predict your applications longevity
- **Modularity** - Designed to be removed from one application and used on another, KULR ONE offers you the ability to standardize your battery pack design on a wide variety of your applications which gives your customers flexibility with powering their devices at home or in the field
- **Reliability** - Designed by Engineers who previously worked at NASA designing battery packs suitable for manned spaceflight, KULR ONE is manufactured with highest quality materials, using the most well thought through and vigorously tested designs, by the world's best Battery Design Engineers
- **Customizability** - Using our world class Battery Design Engineers and Manufacturing capability, KULR Technology can design and manufacture a battery pack specific for your individual application needs. This can include a wide variety of form factors and performance characteristics with unparalleled quality and reliability.

## TYPICAL APPLICATIONS

High reliability aerospace and defense applications including CubeSat.

## AVAILABILITY

Please contact KULR Technology Group for additional information.



## TYPICAL PROPERTIES

Feature	KULR ONE 100S
Cells	18650
Cell Count	8
Pack Configuration	2P-4S
Pack Energy	100 Wh
Pack Max Capacity	7 Ah
Pack Max Voltage	14.4 V
Maximum Rated Charge	0.5 C (1.7 A)
Sustained Discharge Rate	2.8 C (20 A)
Cycles for Max Performance (80%)	450
CellCheck	Optional
Batter Management System (BMS)	Texas Instruments (TI) BMS
Housing Construction	Aluminum 6061
Pack Mass	1.5 kg
Target Gravimetric Energy Density	180 Wh kg <sup>-1</sup>
Target x, y, z Dimensions	10 cm x 5 cm x 9 cm
JSC 20793 Rev. E Compliant	Yes

## 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.