
Lithium-Ion Batteries (LIB)

■ Features of COTS based LIB

- Suitable for optimizing the capacity, volume and mass
- Operatable under wide temperature range
- Low cost and shorter lead-time
- Cell level assessment for space application completed and cycle test on-going
- 18650-cell battery mounted on Rapid Innovative payload demonstration Satellite 2 (RAISE-2) bus, successfully completed all the mission in 2023.

Property	Performance
Nominal Capacity	5.6 Ah (18650 2P-8S)
Voltage	33.6 – 24.0 V
Discharge Temperature	-10 to +60 deg.C
Charge Temperature	+15 to +35 deg.C
Weight	1.25 kg Nominal
Size	62 x 209 x 86 (mm)MAX
Energy density	129 Wh/kg
Design Life	1.5 years in LEO
Note	Equipped over charge protection circuit



**2P-8S 18650 Cell Battery with
Overcharge Protection Circuit
for RAISE-2 Satellite**