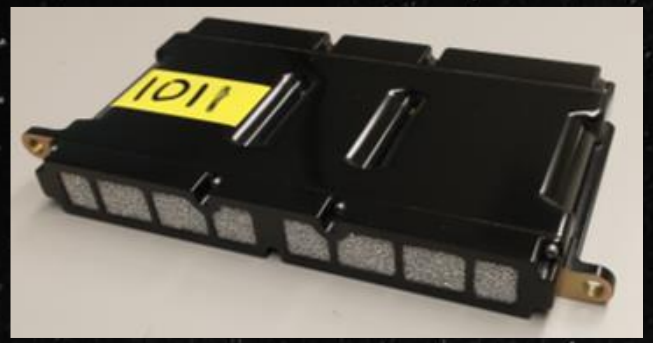
Modular IVA/EVA Battery



- **Purpose**: Provide modular, safe storage and delivery of 95 Wh electrical power. Twelve modules provide 1 kWh stored energy
- **Description**: Designed for safe usage at all planned spacecraft environments, including those with smaller compartments and elevated O_2 levels
- **Distinctive capabilities**: Modular human-rated battery, addresses all battery safety ConOps
- **Potential users**: CLDP, LEO, Moon base, HLS, EHP, Mars forward
- **Technical Readiness Level:** 6-8, depending on spacecraft environment

Technical Parameters

Energy/voltage: 95Wh at 0.5A, up to 24-32.8 VDC per module	Externally-replaceable fuse enables near-real time fault recovery
Size: 7.68“ x 0.90” x 3.99”	Usage Life: 5-15 years pending storage and usage conditions
Mass: 1.63 lbm (0.74 kg)	Can be connected in series or parallel for additional voltage ranges and or current carrying capacity
Chemistry: Lithium-Ion, 1P-8S, 18650 cell format	Can be configured to provide ~ 4, 8, 16, or 32V per module
Approximate time to deliver: ATP + 2-5 years, depending on cell design	Rack or external-strapped mounting configurations

Contact Martin Martinez (martin.d.martinez@nasa.gov) in EP5 for more information