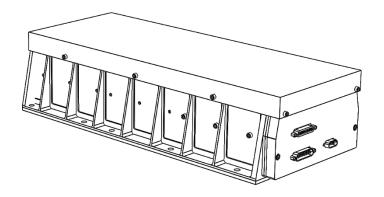


OVERVIEW

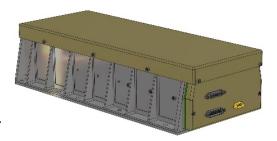
Ibeos' 28-Volt lithium-ion battery assemblies are radiation tolerant and fault tolerant. There are four unique configurations available with 275, 550, 825 and 1100-Watt-hour capacity, respectively. The aluminum and PEEK packaging is rigid, thermally conductive, and enables flexible mechanical and thermal spacecraft interfacing. Thermistors and polyimide thermofoil heaters allow for thermal control. Radiation tolerant battery interface electronics (BIE) provide a remove-before-flight inhibit in addition to overvoltage, over-current, and under-voltage protection.

825-Watt-hour Battery



SPECIFICATIONS

Width and Height Dimensions (mm x mm)	147 x 86
Length Dimension (mm)	342
Mass (Kg)	< 6
Capacity (WHr)	825
Max. Discharge Rate (A)	60
Recommended Charge Rate (A)	30
Voltage	24 V to 33.6 V
Charge Cell Temperature	0 to 45 °C
Discharge Cell Temperature	-25 to 55 °C
Heater Power @ 16V	30W
Single Event Effects	Operate through: LET > 37 Survive: LET > 55
Total Ionizing Dose	30 kRad (Si)



Packaging

- Bottom mounting
- Aluminum chassis and PEEK cell capture plates
- External aluminum surfaces treated with MIL-DTL-5541 Type II, Class 3 chem film
- Kapton thermofoil heaters

Built-In Protection

- Over-voltage, under-voltage
- Over-current charge and discharge
- Remove-before-flight
- Positive temperature coefficient (PTC) overcurrent protection at each cell

Modularity & Scalability

- Four unique configurations to different capacity requirements.
- Common battery packs

Electrical Interface

- 2X 51-Pin Micro-D connector
 - IX 15-Pin Micro-D Connector
 - Connections for
 - Protected power
 - Cell voltage sense
 - \circ Heater
 - 10k NTC thermistor
 - (potted on a central cell)

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