

BATTERY STORAGE

Advanced Energy Storage Units for Commercial Rockets and Spacecraft

Our innovative Energy Storage Series offers fully enclosed integrated designs with intelligent data processing, SOC estimation, fault warning, and autonomous temperature control. With a range of voltage platforms, these units meet the diverse power needs of various rocket systems, providing reliable energy solutions for commercial rockets and reusable spacecraft.

Introduction

The energy storage and management units for commercial rockets feature a fully enclosed integrated design, incorporating intelligent data processing, SOC estimation, fault warning, autonomous temperature control, with optional 32 V, 160 V, 270 V, and 400 V platform. Featuring multiple input and output interfaces, the product series meets diverse power supply needs of various rocket systems.

Product Image

Key Features

- **Platformization:** Modular design, cascading expandability.
- **High Reliability:** Balanced management of core batteries, mature battery screening standards, extending battery lifespan.
- **Intelligence:** Intelligent integrated management system enabling millisecond-level autonomous coordinated control, multiple safety protections.

Technical Characteristics

Typical Model	32 V Platform Rocket Battery System	160 V Platform Rocket Battery System	270 V Platform Rocket Battery System
Operating Voltage (V)	26~34	160±30	270±30
Typical Weight(kg)	5.6	15	20
Size (mm)	236×218×125	340×285×175	375×355×190
Pulse Operating Current (A)	66.2	60	60
Software Level	C Class	C Class	C Class
Function	CAN bus provides real-time transmission of voltage, current, temperature, SOC, and other status information. It has the function to receive on/off power commands.	RS422/CAN serial asynchronous full-duplex transmission mode, with functions including voltage limiting, short-circuit protection, overcharge protection, reverse current protection, status detection (switch, voltage, current, temperature, etc.), fault alarm, etc.	

Typical Applications

Different electrical devices for various systems in commercial rockets and reusable spacecraft.
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