



Battery Management Systems

GE Aviation has been developing and manufacturing battery management systems for more than 40 years. GE Aviation designed and built battery systems for USAF aircrafts such as B-2 bomber, C-5 and C-17 cargo aircrafts, the U-2 surveillance aircraft, and F-15, F-16, F-18, F-22 and F-35 fighter aircraft.

GE Aviation’s military product line consists of airborne 270V and 28V battery management systems. The battery systems employ high performance lithium ion batteries capable of operating under extreme environmental conditions. The battery is managed by a dedicated system that controls the battery charging and heating routines, manages fill-in power application, and provides prognostic and health management of the battery.



270V Battery



28V Battery

Features:

- ◆ Robust electrochemistry
- ◆ Battery charging per MIL-STD-704 power
- ◆ Provides aircraft Initialization/startup and support ground operation
- ◆ Provides backup power during flight emergency conditions
- ◆ Manages DC bus fill-in power need
- ◆ Robust diagnostic and battery health management
- ◆ CANBus and RS 485 interface capability

Physical:

Dimensions
(L” x W” x H”)

Weight

270 V	16.6 x 14.9 x 8.9	89 Lbs.
28 V	15 x 13 x 6	29 Lbs.

Environmental:

Temperature:	-40°C to +71°C
Coolant:	Convection
Heater:	1°C per min
Environmental Testing:	DO-160 and MIL-STD-810
EMI:	DO-160 and MIL-STD-461
Lightning:	DO-160

Characteristics:

	270V	28V
Voltage		
Nominal Capacity	6 Ah	32 Ah
Discharge Energy	1750Watt Hour	900Watt Hour
Peak Power	36 KW	5 KW
Short Circuit Capability	2000 Amperes	2000 Amperes
Charge Rate	4 Amperes	32 Amperes
Internal Impedance	300 milliohms @20°C	24 milliohms @ 20°C



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