PANACIS

PEB-8262 *Advanced Lithium*
Emergency Backup Battery Series

LITHIUM POLYMER BATTERIES

The PEB-8262 Emergency Backup Battery Series (PEB-8262 A, B, C, D) from Panacis represents the next generation in advanced batteries for aerospace applications. What sets this series apart from competitors is its use of advanced lithium battery technology. Panacis' advanced lithium batteries feature Dow Kokam large format lithium polymer cells, which offer significant advantages over existing battery technologies on the market, such as Nickel Cadmium (NiCad) and Sealed Lead Acid (SLA). Specifically, this battery technology offers increased weight and space savings, which results in lower fuel costs to operate the aircraft. Enhanced battery life is also achieved, which ensures that the battery can remain operational longer before it has to be replaced.

Safety and reliability is designed into every Panacis-built advanced lithium battery. Thanks to advanced engineering capabilities, Panacis takes the lithium technology to the next level with integrated electronics and software to maximize battery performance. The battery is capable of backward integration, which makes installation straightforward and inexpensive. This unique capability, coincided with long term cost savings of operation, makes the Panacis PEB-8262 Emergency Backup Battery Series a smart investment for any organization looking to increase the efficiency and effectiveness of their aircraft.

KEY FEATURES	KEY BENEFITS
> Light Weight (6.0 lbs)	> Saves on fuel costs
> Built-in battery heater	> Maintains full capacity in cold conditions
> Precision charging/balancing system	> Improves battery life
> Built-in Test (BIT) continually monitors electronics, charger, heater and cells visual and discrete outputs	> Allows battery to be left on wing longer than any other emergency battery available today
> State of Charge (SOC) Indication, accuracy ± 5%	> Most accurate SOC available for any aircraft battery system
> Lithium batteries for twice the energy and one half the weight of existing batteries	> Twice the safety of existing systems at one half the weight
> Easily installed mounting plate	> Removes heavy and difficult to install bolts used with existing systems
> 25.9 VDC average output vs. 23.5 for sealed lead acid (SLA)	> Provides 10% more power (Watts) than a comparably rated SLA battery
> Four year warranty on cells and five year warranty on electronics	> Longest battery warranty in aviation based on battery performance

Model PEB-8262 C

APPLICATIONS

- Fly-By-Wire Backup, FADEC backup, avionics backup, emergency lighting backup
- Aircraft type applicability
- Falcon Jet - 900 all variants, 2000 all variants, 50EX,
- Bombardier GX and XRS
- Hawker 800XP

Benefit from the drop-in replacement of existing battery systems

TECHNICAL SPECIFICATIONS

Power Input
> 20-32 VDC (28VDC nominal)

Physical Characteristics
> Mounting: Slide-in
> Cooling: Convection
> Qual: DO-160E
> TSO-C179
> DO-311

Capacity Test
> Built-in "Press-to-test"

Capacity
> 8 Amps at 1hr rate
> 6 Amps at 1/2 hr rate
> 4 Amps at 2 hr rate

Operational
> Battery heater on: 10°C
> Discharge -55°C (w/heater) to 70°C
> Charge -55°C (w/heater) to 70°C

Shelf Life
> One year without recharge if stored at 15° to 25° with circuit breakers pulled

Dimensions

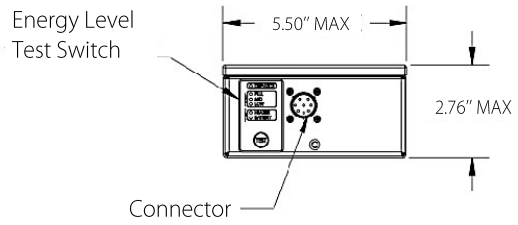
> Length	8.38 in / 212.85 mm
> Width	5.50 in / 139.7 mm
> Height	2.76 in / 70.1 mm
> Weight	6.0 lbs / 2.7 kg

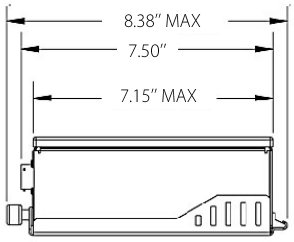
Safety
Designed into all our lithium batteries

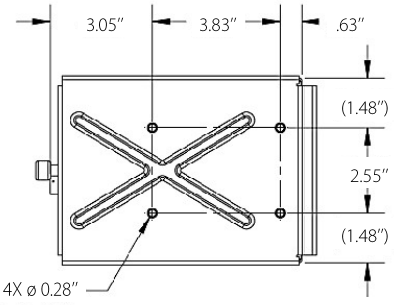
- Less than one chance in a billion of catastrophic failure
- Extensive and redundant electronic controls and continuous monitoring of battery
- Over-charge cutoff protection
- Over-discharge cutoff protection
- Thermal cutoff protection for cells and electronics
- Patented cell monitoring
- Unique packaging concept for added protection

> Cut away drawing of the PEB -8262 C battery. Field proven electronics and magnetics are a common platform for all Panacis lithium backup batteries. The heavy use of electronics and magnetics represent a breakthrough in engineering development.

Typical Dimensions
Custom chassis can be accommodated







Panacis develops custom battery systems
Contact us with your requirements