

EPDB *Electrical Power Distribution Boxes* *Designed for small twin engine aircrafts*

Features:

- Optimized management of aircraft loads
- Intelligent blocking of the power supplies
- Single or dual channel operation (optional power balancing through equalizer bus)
- Measurement of the DC busbar electrical parameters
- Monitoring of aircraft electrical power system (EPS) status
- Permits or denies engine start-up
- Overvoltage and polarity protection for External power supply (GPU)
- Overcurrent and short circuit protection for the loads and busbars

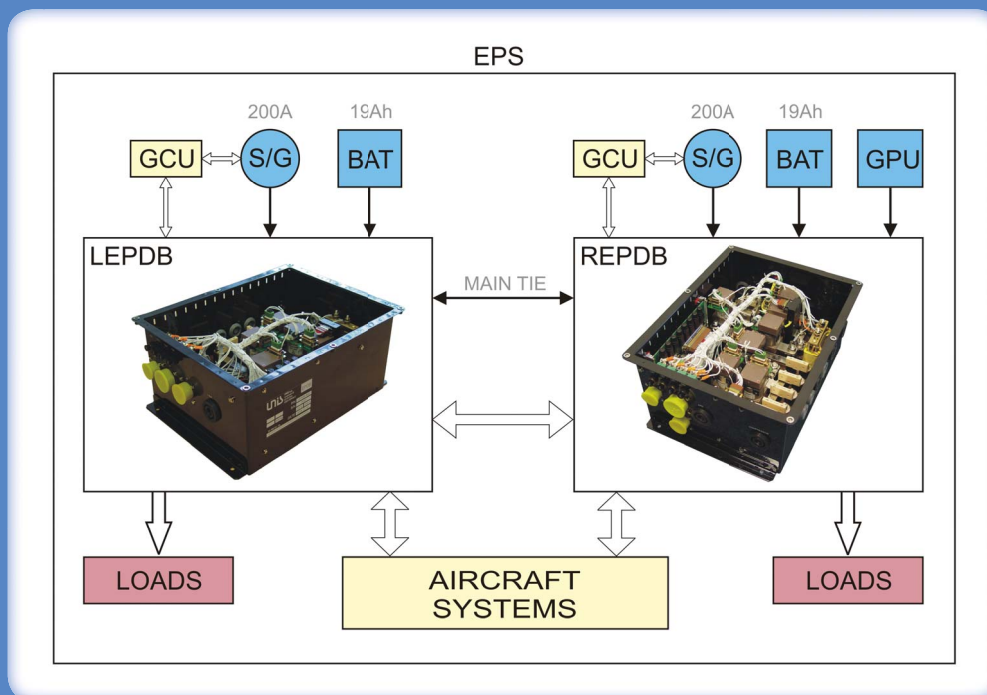
General description:

The EPDB is a primary electrical distribution box intended for small aircraft category CS23/FAR23 with 28 V DC bus. Its main function is the intelligent management of electrical energy, thus assuring the distribution of power from the onboard electrical sources (generators, batteries, GPU) to the aircraft loads (technical or commercial). Various protection schemes and sensing of important parameters are integrated and further function requested by customer may be incorporated. The basic control is done by the pilot through the cockpit panels, which also display the EPDB's current state.



Advantage:

- Decrease of the pilot workload through use of integrated functions
- All power components integrated in the box
- Reduced volume, weight and heat dissipation
- Easy access for maintenance and service
- High reliability through use of highly reliable components
- Resistance to harsh environmental conditions



Electrical parameters:

- Nominal voltage: 28 V DC
- Nominal power distribution capability of the boxes: 12 kW
- Surge capability during engine start-up: up to 600 A (1000 A for 10 s)

Environmental conditions:

RTCA DO-160E:
[B2]BBE[SL]XWXXFSXBABB[YY]B[A4C4]XAAX

Standards:

- EASA CS-23/FAA FAR Part 23
- EN 2282:1992
- MIL-STD-704E
- RTCA DO-160E
- FAR AC 23.1309-1C

Mechanical Parameters:

- Size (W x L x H): 280: 361: 160 mm
- Weight: 4.82 kg (LEPDB), 6.16 kg (REPDB)