

Sealed lead acid batteries

XL246S emergency battery system



Securaplane's emergency batteries are designed for long life, high reliability and convenience.

The XL246-S is an emergency battery system providing 6 amps of power at 19.4 to 24VDC. It is standard on all Gulfstream IVSP production installations since aircraft serial number 1278.

Batteries

Our "pure lead" sealed lead acid (SLA) batteries provide excellent performance in extreme conditions. They can be stored for six months and require no scheduled maintenance.

Battery charger

Built-in battery charger automatically switches between bulk and temperature-compensated constant voltage charge mode. The charger protects the batteries from overheat and overload.

Battery test

No need to remove batteries to perform energy level check; battery test function indicates battery low, mid, or full.

Diagnostics

Continuous built-in test monitors charge/control logic, battery cell voltage and battery heater circuit.

Environmental control

Thermal blanket automatically controls battery ambient temperature to maximize performance.

Key features

- "Pure lead" SLA batteries
- Built-in battery charger
- Built-in battery test
- Diagnostics and BITE
- Environmental control

Key benefits

- No need to remove from aircraft for capacity check.
- No deep cycling
- No "memory" characteristics
- Low cost battery replacement
- Warranty

Three years on batteries

Five years on electronics

Applications

- IRS/INS backup power
- Avionics backup power
- Emergency lighting
- Communications backup power

Installations

- Gulfstream IVSP



Sealed lead-acid batteries

XL246S emergency battery system

Specifications



Specification subject to change.
Images for illustration only.
Please contact Securaplane for installation data

Physical characteristics

Part number

100-0201-01

Size

ARINC 404, ½ ATR short. (8.63 x 4.85 x 12.85 inches)

J1 connector

P/N DSX2G22S38S0001

Qualification

DO-160 -55 to + 71° C (55,000 ft)

Weight

18.6 lbs (max)

Mounting

½ ATR short tray

Cooling

Convection (no forced air)

Battery pack

24 VDC 6 Ah (at 1 hour rate). Sealed lead acid (dry).

Power characteristics

Input power

- 20-35 VDC (28 VDC nominal), 25 Amps maximum (Short term 2-3 minutes)

Output power (at 60° F or above)

- 19.5-24 VDC, 20A (maximum)
- 200W for 45 minutes (2.9 ohm load), or 6A for one hour

Essential bus outputs

- 1A fused output
- 15A circuit breaker output
- Two 5A circuit breaker output
- 5 volt, 5 mA output
- 5 volt, 5A output

Emergency lighting outputs

- Five 3A internal fused/resettable outputs, common 10A circuit breaker

Direct battery output

- 15A circuit breaker output

Emergency power operation

The XL246-S automatically switches from aircraft 28 VDC bus to the 24 VDC battery when the aircraft bus drops below 20 VDC.

The XL246-S may be used to provide emergency lighting or to drive essential equipment outputs. Application is determined by which outputs are engaged at a particular station.