

## 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

## Securaplane

Our product competencies and services:

Aircraft security systems | Airborne video cameras | Aircraft batteries | Battery chargers | Inverters | Converters | Wireless integration

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extreme environments

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## 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.

## Securaplane

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