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Data Sheet

August 13, 2026

L3 COMMUNICATIONS

L3 Communications PS-835D

Manufacturer: L3 Communications / L3Harris (Avionics Systems) Instrument Type: Aircraft Emergency Power Supply Alias: PS-835D; PS835D; 501-1228-04; L3 PS-835D Cell Capacity: 5.0 Ah at the 10-hour rate Instrument Type: Aircraft Emergency Power Supply Alias: PS-835D; PS835D; 501-1228-04; L3 PS-835D Cell Capacity: 5.0 Ah at the 10-hour rate Power Class Premier: 150 W output for 30 minutes (PS-835D); PS-835C is 75 W



MODEL

**L3
Communications
PS-835D**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

PS-835D

LISTING

<https://aumictechlabs.com/products/ps-835d-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The L3 Communications PS-835D is a 24 VDC nominal emergency power system engineered to supply continuous standby power to critical flight instruments during aircraft power failures. This 150-watt unit delivers uninterrupted DC power to connected avionics modules without switching delay, ensuring essential systems remain operational when primary aircraft power is lost.

Technical Specifications Output Power: 150 watts for 30 minutes continuous operation Ampere-Hour Rating: 5.0 Ah Battery Life: 2.5 to 5.0 hours supplying standby attitude gyros at 25°C Input Voltage: 28 VDC (from aircraft system) Output Voltage: 24 VDC Battery Type: Heavy duty sealed lead-acid wet cells Recharge Time: 50% capacity within one hour at 25°C; automatic full-charge maintenance during normal flight operations Weight: 12.4 lbs Heater Operation: Automatically

controlled internal heaters with 55°C activation threshold

Key Features

- Automatic power transfer from aircraft bus to battery during primary power loss
- Front panel and remote self-test capability
- LED indicators for voltage level, cell status, heater operation, and overtemperature alert (>55°C)
- Short circuit protection available on inverter and converter modules
- Sealed construction for enhanced reliability in severe thermal and operational environments

Typical Applications

- Emergency attitude indicators and gyro horizons
- Standby transceivers and communication equipment
- Emergency lighting systems
- Flight instrument backup power for military, aerospace, and commercial transport operations

Compatibility & Integration

The PS-835D accepts optional power conditioning modules for tailored output configurations, including 115 VAC (1Ø or 3Ø, 400 Hz), 5 VAC (400 Hz), and 5 VDC outputs via modules such as SI-100, SC-841, BC-815, or MTG-101A.

Features & description

From manufacturer datasheet

Features

- 24 Vdc nominal; 5.0 Ah at 10-hour rate

PS835D Characteristics / Specifications

PARAMETER	VALUE
Model	PS-835D
Manufacturer	L3 Communications / L3Harris (Avionics Systems)
Instrument Type	Aircraft Emergency Power Supply
Series	PS-835
Alias	PS-835D; PS835D; 501-1228-04; L3 PS-835D
Part Number	501-1228-04
NSN	6130-01-219-8285
Output Voltage	24 Vdc nominal
Output Current Max	10 A steady state
Cell Capacity	5.0 Ah at the 10-hour rate
Input Voltage	28 to 30 Vdc
Input Current Max	15 A
Power Class Premier	150 W output for 30 minutes (PS-835D); PS-835C is 75 W
Weight	13 lb (6.0 kg) for models B, D, F, G
Dimensions Listing	7.626 inHx 14.114 inLx 2.282 inW CMM Envelope: length 14.110 in max, height 7.774 in max, width 2.400 in max
Operating Temperature	-55 C to +70 C
Storage Temperature	-55 C to +85 C
Operating Altitude	sea level to 55000 ft at 25 C
Connector	DPXB-13-33S-0001 (Avionics Systems S24140-01) on models A, B, C, D, G
RTCA	DO-160A environmental (CMM)
Certification	FAA-PMA on 501-1228-03, -04, -06, -07
TSO	none exists (SEAEROSPACE listing)
Family 2.5 Ah	models A, C, E use 2.5 Ah cells; 8 lb class
Family 5.0 Ah	models B, D, F, G use 5.0 Ah cells; 13 lb class

PARAMETER	VALUE
Self Test	front panel and remote
Heaters	automatically controlled internal heaters
Recharge Listing	rechargeable to 50% capacity within one hour at 25 C (Premier)
Maintenance	annual capacity test; periodic check 3 to 6 months
ECCN Listing	7A994
Cage	06141
Service Life	unlimited service life (CMM) Notes Specs from L3 PS-835 CMM TP-329 (501-1228-04, 5.0 Ah, 28-30 Vdc in, 24 Vdc 10 A out, 13 lb, -55 to +70 C) and Premier/SEA listings (150 W 30 min on D). Confirm mods, connector, and optional inverter/converter.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	55 C to +85 C
Operating temperature	55 C to +70 C
Operating Temperature	55 C to +70 C
Operating Altitude	sea level to 55000 ft at 25 C
Connector	DPXB-13-33S-0001 (Avionics Systems S24140-01) on models A, B, C, D, G
RTCA	DO-160A environmental (CMM)
Certification	FAA-PMA on 501-1228-03, -04, -06, -07
TSO	none exists (SEAEROSPACE listing)
Family 2.5 Ah	models A, C, E use 2.5 Ah cells; 8 lb class
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Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	PS-835D
Manufacturer	L3 Communications / L3Harris (Avionics Systems)
Instrument Type	Aircraft Emergency Power Supply
Specifications	
PARAMETER	VALUE
Series	PS-835
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Specifications

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Storage Temperature	-55 C to +85 C
Operating Altitude	sea level to 55000 ft at 25 C

Specifications

PARAMETER	VALUE
Connector	DPXB-13-33S-0001 (Avionics Systems S24140-01) on models A, B, C, D, G
RTCA	D0-160A environmental (CMM)
Certification	FAA-PMA on 501-1228-03, -04, -06, -07

Specifications

PARAMETER	VALUE
TSO	none exists (SEAEROSPACE listing)
Family 2.5 Ah	models A, C, E use 2.5 Ah cells; 8 lb class
Family 5.0 Ah	models B, D, F, G use 5.0 Ah cells; 13 lb class

Optional Modules: SI-100 static inverter; SC-841 static converter; BC-815 charger; MTG-101A

Specifications

PARAMETER	VALUE
Self Test	front panel and remote
Heaters	automatically controlled internal heaters
Recharge Listing	rechargeable to 50% capacity within one hour at 25 C (Premier)

Specifications

PARAMETER	VALUE
Maintenance	annual capacity test; periodic check 3 to 6 months
ECCN Listing	7A994
Cage	06141

Service Life: unlimited service life (CMM)

Notes

Specs from L3 PS-835 CMM TP-329 (501-1228-04, 5.0 Ah, 28-30 Vdc in, 24 Vdc 10 A out, 13 lb, -55 to +70 C) and Premier/SEA listings (150 W 30 min on D). Confirm mods, connector, and optional inverter/converter.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.