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Data Sheet

August 14, 2026

AMREL

Amrel LPS-302

Amrel DC Power Supplies. Voltage: 0–15 V (High Range) / 0–30 V (Low Range), Accuracy: $\pm$ (0.2% of reading + 2 digits), Resolution: 10 mV.



MODEL

Amrel LPS-302

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

LPS-302

LISTING

<https://aumictechlabs.com/products/lps-302-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Amrel LPS-302 is a 60 W linear programmable DC power supply built for electronic testing, development, and production environments. It delivers adjustable voltage and current outputs across dual ranges with exceptional stability - 1 mVrms noise and 10 mVp-p ripple (20 Hz–2 MHz) ensure clean power for sensitive circuits. The unit combines precision voltage control ($\pm$ 0.2% accuracy, 10 mV resolution) with stable current regulation ($\pm$ 0.5% accuracy, 1 mA resolution) and supports both local front-panel operation and remote RS-232C command via ASCII protocol at 2400 baud.

Technical Specifications

Output Power & Voltage 60 W total output power Dual-range voltage: 0–15 V (High Range) / 0–30 V (Low Range) Voltage accuracy: $\pm$ (0.2% of reading + 2 digits) Setting resolution: 10 mV Line regulation: 1 mV; Load regulation: 2 mV Noise: 1 mVrms; Ripple (20 Hz–2 MHz): 10 mVp-p Temperature coefficient: 100 ppm/°C typical

Output Current Dual-range current: 0–4 A (High Range) / 0–2 A (Low Range) Current accuracy: $\pm$ (0.5% of reading + 5 digits) Setting resolution: 1 mA Line regulation: 15 mA; Load regulation: 5 mA Noise: 1 mArms; Ripple: 5 mAp-p Temperature coefficient: 200 ppm/°C typical Transient response: 100 μ s typical

Environmental & Physical Operating temperature: 0 °C to 40 °C Storage temperature: -40 °C to 70 °C Operating humidity: Up to 80% RH Dimensions: 8.4" W × 5.2" H × 15.7" L Weight: 12 lbs Cooling: Forced air Display: 16 × 2 LCD with backlightKey Features Dual-range voltage and current capability for flexible load matching Low-noise linear architecture with ± 240 V common-mode voltage rating 16 × 2 LCD display and front-panel keypad for intuitive operation RS-232C interface (optional/standard on certain LPS300 models) for automated test sequences Tight load and line regulation for stable sourcing under dynamic conditionsTypical Applications Component characterization and quality assurance testing Circuit development and prototype validation Production burn-in and functional test Bench-top research and educational labsCompatibility & Integration RS-232C remote control operates at 2400 baud with N81 framing and ASCII command set (case-insensitive). Complete operation and service manuals covering the LPS300 series (LPS 301–305) provide detailed setup, troubleshooting, and calibration guidance.

LPS302 Characteristics / Specifications

PARAMETER	VALUE
Model	LPS-302
Instrument Type	Dual range linear DC power supply
Configurator Class	Single output dual range
Output Power	60 W
Output Voltage High Range	0 V to 15 V
Output Voltage Low Range	0 V to 30 V
Output Current High Range	0 A to 4 A
Output Current Low Range	0 A to 2 A
Voltage Accuracy	plus or minus (0.2 percent of reading + 2 digits)
Voltage Setting Resolution	10 mV
Voltage Line Regulation	1 mV
Voltage Load Regulation	2 mV
Voltage Noise	1 mVrms
Voltage Ripple	10 mVp-p bandwidth 20 Hz to 2 MHz
Voltage Temperature Coefficient	100 ppm perCtypical
Current Accuracy	plus or minus (0.5 percent of reading + 5 digits)
Current Setting Resolution	1 mA
Current Line Regulation	15 mA
Current Load Regulation	5 mA
Current Noise	1 mArms
Current Ripple	5 mAp-p
Current Temperature Coefficient	200 ppm perCtypical
Display	16 × 2 LCD with backlight
Common Mode Voltage	plus or minus 240 V
Operating Temperature	0 C to 40 C

PARAMETER	VALUE
Storage Temperature	-40 C to 70 C
Relative Humidity	80 percent
Dimensions	8.7 in x 3.4 in x 11.8 in
Weight	10 lb
Cooling	Fan convection
Rs232 Interface	Optional on LPS-302 column
Bandwidth	20 Hz to 2 MHz
Humidity	80 percent

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 C to 70 C
Operating temperature	0 C to 40 C
Operating Temperature	0 C to 40 C
Humidity	80 percent
Model	LPS-302
Instrument Type	Dual range linear DC power supply
Configurator Class	Single output dual range
Output Power	60 W
Output Voltage High Range	0 V to 15 V
Output Voltage Low Range	0 V to 30 V
Output Current High Range	0 A to 4 A
Output Current Low Range	0 A to 2 A
Voltage Accuracy	plus or minus (0.2 percent of reading + 2 digits)
Voltage Setting Resolution	10 mV
Voltage Line Regulation	1 mV
Voltage Load Regulation	2 mV
Voltage Noise	1 mVrms
Voltage Ripple	10 mVp-p bandwidth 20 Hz to 2 MHz
Voltage Temperature Coefficient	100 ppm perCtypical
Current Accuracy	plus or minus (0.5 percent of reading + 5 digits)
Current Setting Resolution	1 mA
Current Line Regulation	15 mA
Current Load Regulation	5 mA
Current Noise	1 mArms
Current Ripple	5 mAp-p

PARAMETER	VALUE
Current Temperature Coefficient	200 ppm perCtypical
Display	16 × 2 LCD with backlight
Common Mode Voltage	plus or minus 240 V
Relative Humidity	80 percent
Dimensions	8.7 in x 3.4 in x 11.8 in
Weight	10 lb
Cooling	Fan convection
Rs232 Interface	Optional on LPS-302 column Notes From AMREL LPS Series datasheet table columns for LPS-302 (60 W dual-range) and shared LPS voltage/current/environmental rows. Transient response is blank on the LPS-301/302 columns of that sheet.

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.

environmental specifications.	
Applications	
General laboratory dual-range DC bias, circuit bring-up, and benchtop constant-voltage or constant-current work needing 15 V/4 A or 30 V/2 A class ranges.	
Key Features	
Dual high/low voltage and current ranges onasingle output	
LCD readout with backlight	
Optional RS-232C on the LPS-302 column	
Shared LPS family voltage and current metrology	
Convection cooling on the LPS-301/302 size class	
Technical Specifications	
Technical Specifications	
PARAMETER	VALUE
Model	LPS-302
Instrument Type	Dual range linear DC power supply
Configurator Class	Single output dual range
Output Power	60 W
Output Voltage High Range	0 V to 15 V
Output Voltage Low Range	0 V to 30 V
Output Current High Range	0 A to 4 A
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Voltage Accuracy	plus or minus (0.2 percent of reading + 2 digits)
Voltage Setting Resolution	10 mV
Voltage Line Regulation	1 mV
Voltage Load Regulation	2 mV
Voltage Noise	1 mVrms
Voltage Ripple	10 mVp-p bandwidth 20 Hz to 2 MHz
Voltage Temperature Coefficient	100 ppm perCtypical
Current Accuracy	plus or minus (0.5 percent of reading + 5 digits)
Current Setting Resolution	1 mA
Current Line Regulation	15 mA
Current Load Regulation	5 mA
Current Noise	1 mAirms

PARAMETER	VALUE
Current Ripple	5 mAp-p
Current Temperature Coefficient	200 ppm perCtypical
Display	16 x 2 LCD with backlight
Common Mode Voltage	plus or minus 240 V
Operating Temperature	0 C to 40 C
Storage Temperature	-40 C to 70 C
Relative Humidity	80 percent
Dimensions	8.7 in x 3.4 in x 11.8 in
Weight	10 lb
Cooling	Fan convection
Rs232 Interface	Optional on LPS-302 column

Notes
From AMREL LPS Series datasheet table columns for LPS-302 (60 W dual-range) and shared LPS voltage/current/environmental rows. Transient response is blank on the LPS-301/302 columns of that sheet.

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.