

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

ASTRODYNE

Astrodyne SPU45-301

The Astrodyne SPU45-301 is a 42 W triple-output AC-DC switching power supply housed in a compact, splash-proof desktop enclosure. It accepts universal input from 90–264 VAC at 47–63 Hz and delivers three isolated voltage rails with 3000 V input-to-output isolation. This unit works with industrial and commercial equipment including POS systems, AV devices, industrial and notebook PCs, battery chargers, and LED lighting systems. Operating temperature: 0 to +40°C (free air convection); 50% load derating at 70°C Meets UL 60950-1:2nd Edition, CSA C22.2 No.60950-1-07, IEC 60950-1:2005/A2:2013, EN60950-1:2006/A2:2013 Aumictech offers NIST-traceable calibration and repair for the Astrodyne SPU45-301. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt.



MODEL

Astrodyne SPU45-301

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

SPU45-301

LISTING

<https://aumictechlabs.com/products/spu45-301-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Astrodyne SPU45-301 is a 42 W triple-output AC-DC switching power supply housed in a compact, splash-proof desktop enclosure. It accepts universal input from 90–264 VAC at 47–63 Hz and delivers three isolated voltage rails with 3000 V input-to-output isolation. This unit works with industrial and commercial equipment including POS systems, AV devices, industrial and notebook PCs, battery chargers, and LED lighting systems. Technical Specifications Electrical

Input: 90–264 VAC, 47–63 Hz via IEC-320-C14 receptacle Output 1: +5.0 VDC @ 5.0 A (minimum load 0.5 A) Output 2: +12.0 VDC @ 2.0 A (minimum load 0.2 A) Output 3: –5.0 VDC @ 0.8 A (minimum load 0.8 A) Voltage regulation: $\pm 5\%$ across all outputs Isolation: 3000 V input-to-output Protection: Crowbar over-voltage and auto-recovery short-circuit Efficiency: DoE VI compliant Physical Dimensions: 5.75" $\times$ 3" $\times$ 1.7" (L $\times$ W $\times$ H) Weight: 550 g Construction: Splash-proof case Environmental Operating temperature: 0 to +40°C (free air convection); 50% load derating at 70°C Storage temperature: –40 to +85°C Humidity: 5% to 95%, non-condensing Maximum altitude: 5000 m Key Features 100% burn-in and testing at factory UL/c-UL, TUV/GS, and CE marked Meets UL 60950-1:2nd Edition, CSA C22.2 No.60950-1-07, IEC 60950-1:2005/A2:2013, EN60950-1:2006/A2:2013 FCC Part-15 Class B and CISPR-22 Class B compliant UL94V-1 flammability rating, Class I protection Typical Applications POS terminals, audio/video equipment, industrial control systems, laptop power delivery, rechargeable battery systems, and LED display power. Compatibility & Integration Not authorized for life support, hazardous environment, nuclear control, or applications. Suitable for non-hazardous industrial and commercial environments only.

Features & description

From manufacturer datasheet

Features

- Manufacturer: Astrodyne • Model: SPU45-301 • SPU45 series switching supply family • Compact OEM module form • Catalog-traceable part number • Switching topology
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Applications

- OEM embedded DC power conversion • Industrial equipment replacement supply • Catalog-matched Astrodyne SPU45 spares • Bench and system secondary power

SPU45301 Characteristics / Specifications

PARAMETER	VALUE
Model	SPU45-301
Manufacturer	Astrodyne
Instrument Type	Switching Power Supply
Product Family	SPU45
Catalog Number	SPU45-301
Topology	Switching power supply
Form	OEM module / open-frame or enclosed class (confirm unit)
Series	SPU45
Part Suffix	-301 configuration
Brand	Astrodyne
Identification	Full model string SPU45-301
Use	Secondary / system power conversion
Replacement Role	Exact catalog match required
Industry	Industrial / embedded power
Documentation	Manufacturer datasheet by SPU45 family Notes Public detailed electrical tables for exact -301 suffix are sparse. Confirm Vin/Vout/current on the unit label before substitution.

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	
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PARAMETER	VALUE
Model	SPU45-301
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Instrument Type	Switching Power Supply
Product Family	SPU45
Catalog Number	SPU45-301
Topology	Switching power supply
Form	OEM module / open-frame or enclosed class (confirm unit)
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Notes	
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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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.