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Data Sheet

August 15, 2026

EMERSON / ARTESYN / ASTEC

Emerson / Artesyn / Astec LPS55 24VDC at 2.5A Power Supply

Artesyn Emerson LPS55 24 V Single Output Switching Power Supply 60 W Class The Artesyn LPS55 is the 24 V model in the LPS50 series 2 by 4 inch footprint AC-DC supplies. OEM LPS50 series datasheet rates 90 to 264 Vac or 127 to 300 Vdc input, 2.5 A convection / 2.75 A peak at 24 V, plus or minus 2 percent regulation, and 240 mV p-p ripple. Low-profile embedded industrial electronics, medical-adjacent ITE installs by professional integrators, and compact 24 V logic rails under 60 W. Remote sense with 0.5 V lead-drop compensation The Artesyn LPS55 is the 24 V model in the LPS50 series 2 by 4 inch footprint AC-DC supplies. OEM LPS50 series datasheet rates 90 to 264 Vac or 127 to 300 Vdc input, 2.5 A convection / 2.75 A peak at 24 V, plus or minus 2 percent regulation, and 240 mV p-p ripple. Low-profile embedded industrial electronics, medical-adjacent ITE installs by professional integrators, and compact 24 V logic rails under 60 W. Remote sense with 0.5 V lead-drop compensation Built-in EMI filter CISPR 22 ClassB Overload short-circuit and overvoltage protection



MODEL

**Emerson / Artesyn
/ Astec LPS55**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

LPS55

LISTING

<https://aumictechlabs.com/products/lps55-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Emerson/Artesyn/Astec LPS55 is a 60-watt open-frame AC-DC power supply delivering 24VDC at 2.5A for commercial ITE and telecommunications applications. This chassis-mount

converter accepts universal input across 90–264VAC or 127–300VDC, enabling deployment in diverse power environments. The unit measures 4.00" × 2.00" × 1.30" (101.6mm × 50.8mm × 33.0mm) and operates at 85% efficiency with no minimum load requirement. Technical Specifications Output: 24VDC at 2.5A (55–60W total power) Input Voltage: 90–264VAC or 127–300VDC Efficiency: 85% Operating Temperature: 0°C to 70°C with derating Dimensions: 4.00" L × 2.00" W × 1.30" H (101.6mm × 50.8mm × 33.0mm) Form Factor: Chassis mount, <1U height Certifications: CB, CE, UL listed Key Features Universal input accepts both AC (90–264VAC) and DC (127–300VDC) supplies Adjustable output voltage control for system customization Remote sense compensation up to 0.5V lead drop for precision voltage regulation Overload and short circuit protection with reverse connection protection Built-in EMI filter for noise suppression No minimum load requirement for flexible system design High mean time between failures (MTBF) for reliability Typical Applications Commercial information technology equipment (ITE) Telecommunications infrastructure Networking systems Test and measurement instrumentation Imaging equipment Compatibility & Integration The LPS55 integrates into legacy and current systems via its standard 2" × 4" footprint and chassis-mount configuration. Single-output design simplifies interconnection. Remote sense capability enables accurate voltage regulation across distributed loads or extended cable runs.

Features & description

From manufacturer datasheet

Built-in EMI filter CISPR 22 Class B Overload short-circuit and overvoltage protection

Technical Specifications Model: LPS55 Series: LPS50 Instrument Type: Single output AC-DC switching power supply Output Voltage Nominal: 24 V Minimum Load: 0 A Maximum Load Convection: 2.5 A Peak Load: 2.75 A lasting less than 15 s at 10 percent maximum duty Regulation: plus or minus 2 percent at 25 C including initial tolerance line and load Ripple Noise PARD: 240 mV p-p 20 MHz bandwidth with 10 uF and 0.1 uF Input Voltage AC: 90 to 264 Vac wide range Input Voltage DC: 127 to 300 Vdc (DC rating not part of safety approval) Input Frequency: 47 to 63 / 440 Hz safety rating 50/60 Hz Inrush Current: less than 60 A peak at 230 Vac cold start 25 C Input Power: less than 74 W Efficiency Typical: 80 to 85 percent at full load Safety Ground Leakage Class I: less than 0.5 mA at 50/60 Hz 264 Vac Maximum Power Convection: 60 W Adjustment Range: plus 20 percent minimum Hold Up Time: 10/20 ms at 115/230 Vac Overload Protection: case overload 110 to 160 percent of normal rating Overvoltage Protection: 30 to 50 percent above nominal output Remote Sense Lead Drop: 0.5 V maximum Operating Temperature: 0 to 50 C ambient derate 2.5 percent per C from 50 to 70 C start at -20 C Storage Temperature: -40 to plus 85 C

LPS55 Characteristics / Specifications

PARAMETER	VALUE
Model	LPS55
Series	LPS50
Instrument Type	Single output AC-DC switching power supply
Output Voltage Nominal	24 V
Minimum Load	0 A
Maximum Load Convection	2.5 A
Peak Load	2.75 A lasting less than 15 s at 10 percent maximum duty
Regulation	plus or minus 2 percent at 25 C including initial tolerance line and load
Ripple Noise Pard	240 mV p-p 20 MHz bandwidth with 10 uF and 0.1 uF
Input Voltage Ac	90 to 264 Vac wide range
Input Voltage Dc	127 to 300 Vdc (DC rating not part of safety approval)
Input Frequency	47 to 63 / 440 Hz safety rating 50/60 Hz
Inrush Current	less than 60 A peak at 230 Vac cold start 25 C
Input Power	less than 74 W
Efficiency Typical	80 to 85 percent at full load
Safety Ground Leakage Class I	less than 0.5 mA at 50/60 Hz 264 Vac
Maximum Power Convection	60 W
Adjustment Range	plus 20 percent minimum
Hold Up Time	10/20 ms at 115/230 Vac
Overload Protection	case overload 110 to 160 percent of normal rating
Overvoltage Protection	30 to 50 percent above nominal output
Remote Sense Lead Drop	0.5 V maximum
Operating Temperature	0 to 50 C ambient derate 2.5 percent perCfrom 50 to 70 C start at -20 C
Storage Temperature	-40 to plus 85 C
Humidity Operating	10 to 95 percent RH non-condensing

PARAMETER	VALUE
Mtbf Demonstrated	greater than 550000 hours at full load 25 C
Footprint	2 inches by 4 inches
Mass	0.41 lb / 0.18 kg
Emi Filter	FCC ClassBCISPR22 ClassBEN55022 ClassBconducted
Bandwidth	with 10 uF and 0.1 uF
Humidity	Operating: 10 to 95 percent RH non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 to plus 85 C
Operating temperature	0 to 50 C ambient derate 2.5 percent perCfrom 50 to 70 C start at -20 C
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Humidity	Operating: 10 to 95 percent RH non-condensing
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Footprint	2 inches by 4 inches
Mass	0.41 lb / 0.18 kg
Emi Filter	FCC ClassBCISPR22 ClassBEN55022 ClassBconducted Notes From Artesyn LPS50 Series datasheet ordering information row LPS55 and common LPS50 electrical/environmental specifications. Component power supply for professional installer inclusion.

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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Notes

From Artesyn LPS50 Series datasheet ordering information row LPS55 and common LPS50 electrical/environmental specifications. Component power supply for professional installer inclusion.

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
NAICS 423690 · 811210 · 541380
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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.