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Data Sheet

August 13, 2026

LAMBDA / TDK / EMI

Lambda / TDK / EMI LRS 58-24

The Lambda LRS 58-24 is a highly reliable and efficient enclosed power supply, designed for a wide range of industrial and electronic applications. It features a universal AC input, compact size, and excellent thermal performance. Built with quality components, it ensures stable and dependable operation.



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MODEL**Lambda / TDK /
EMI LRS 58-24****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****LRS 58-24****LISTING**<https://aumictechlabs.com/products/lrs-58-24-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Lambda TDK LRS 58-24 is an enclosed, convection-cooled DC power supply delivering 24 Vdc at up to 44 A (1440 W) from universal AC or DC input. Built for industrial and electronic applications requiring high reliability, tight regulation, and low noise in demanding environments, this supply operates continuously from -10°C to +71°C and meets multiple military and safety certifications. Technical Specifications Input & Output Input voltage: User-selectable 95–132 VAC or 187–265 VAC, 47–440 Hz; DC input 145 Vdc ±10% Output voltage: 24 Vdc nominal, ±5% tolerance Maximum output current: 44 A (currents 10–15% higher without cover) Maximum output power: 1440 W at 24 V Performance Minimum efficiency: 80% Line regulation: 0.1% (low to high line) Load regulation: 0.1% (no load to full load) Output ripple and noise: 15 mV RMS, 100 mV peak-to-peak (20 MHz bandwidth) Remote sensing provision to eliminate lead resistance effects Protection & Control Overvoltage protection: Standard (AC recycle required for reset) Overload

protection: Automatic electronic self-resetting current limiting Inrush current: Limited during cold start Environmental Operating temperature: -10°C to $+71^{\circ}\text{C}$ continuous (derating above 40°C); guaranteed turn-on at -20°C Storage temperature: -55°C to $+85^{\circ}\text{C}$ Conducted EMI: FCC Docket 20780 Class A; MIL-STD-461A Notice 4 CE04; VDE 0871 Class A Environmental qualification: MIL-STD-810C (low/high temperature, shock, vibration, humidity, fungus, pressure-altitude)Key Features Convection cooled - no fans or blowers required UL Recognized, CSA Certified, TUV Licensed Barrier strip input terminals; heavy-duty threaded bus bars for output Tapped mounting holes; customer-provided clearance around vent holes requiredTypical Applications Industrial automation, test systems, instrumentation, and distributed power where stable 24 V rails and high current capacity are essential.Compatibility & Integration Dual-input design accommodates both standard 120/240 VAC facilities and 145 Vdc sources. Remote sensing terminals enable precision voltage regulation across extended distribution networks.

Features & description

From manufacturer datasheet

Features

- 24 Vdc single output (LRS-58-24 decoder)

LRS58 Characteristics / Specifications

PARAMETER	VALUE
Model	LRS-58-24
Manufacturer	Lambda Electronics / TDK-Lambda
Instrument Type	Switching AC/DC Power Supply
Series	LRS-50
Alias	LRS-58-24; LRS 58-24; Lambda LRS-58-24
Rated Output Voltage	24 Vdc
Rated Output Current	nameplate (do not use unverified 44 A distributor figures)
Family Package	LRS-58 is the 58 frame in the LRS-49 to LRS-59 sequence
Voltage Options Family	LRS-58-5, LRS-58-12, LRS-58-15, LRS-58-24, LRS-58-28, LRS-58-48 class catalog suffixes
Sibling LRS54 24 Voltage	24 Vdc plus/minus 5% (Artisan LRS-54-24)
Sibling LRS54 24 Current	4.5 to 11.5 A depending on temperature (Artisan LRS-54-24)
Sibling LRS54 24 Input	380 W class max AC input listing (Artisan LRS-54-24)
Output	single regulated 24 V rail
Topology	enclosed switching AC/DC
Form	chassis mount enclosed LRS
Cooling	forced air or convection per LRS-58 chassis; confirm fan on the unit
Protection	overcurrent / overvoltage class Lambda LRS switchers
AC Input	Lambda LRS wide-range or selectable AC; confirm 115/230 on the nameplate
Not Mean Well LRS	Mean Well LRS-50-24 is 24 V 2.2 A 50 W and is a different manufacturer
Identity Rule	keep LRS-58-24 current off the LRS-54-24 4.5-11.5 A row
Duty	continuous industrial DC within nameplate ratings
Connections	barrier or terminal block class LRS enclosed
Adjustment	output trim class Lambda LRS 24 V

PARAMETER	VALUE
Status	legacy Lambda LRS-50 series Notes Verified identity is Lambda LRS-58-24 at 24 Vdc. Current is nameplate-specific. Artisan documents LRS-54-24 at 24 V plus/minus 5% and 4.5-11.5 A; do not copy that current onto LRS-58. Do not use Mean Well LRS ratings or unverified 44 A figures.

LRS58 Specifications

PARAMETER	VALUE
Applications	24 V industrial DC bulk; OEM chassis replacement of Lambda LRS-58-24; 24 V control and logic rails.
Key Features	- 24 Vdc single output (LRS-58-24 decoder)
Technical Specifications	Model: LRS-58-24

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	LRS-58-24
Manufacturer	Lambda Electronics / TDK-Lambda
Instrument Type	Switching AC/DC Power Supply
Specifications	
PARAMETER	VALUE
Series	LRS-50
Alias	LRS-58-24; LRS 58-24; Lambda LRS-58-24
Rated Output Voltage	24 Vdc
Specifications	
PARAMETER	VALUE
Rated Output Current	nameplate (do not use unverified 44 A distributor figures)
Family Package	LRS-58 is the 58 frame in the LRS-49 to LRS-59 sequence
Voltage Options Family	LRS-58-5, LRS-58-12, LRS-58-15, LRS-58-24, LRS-58-28, LRS-58-48 class catalog suffixes
Specifications	
PARAMETER	VALUE
Sibling LRS54 24 Voltage	24 Vdc plus/minus 5% (Artisan LRS-54-24)
Sibling LRS54 24 Current	4.5 to 11.5 A depending on temperature (Artisan LRS-54-24)
Sibling LRS54 24 Input	380 W class max AC input listing (Artisan LRS-54-24)
Specifications	
PARAMETER	VALUE
Output	single regulated 24 V rail
Topology	enclosed switching AC/DC
Form	chassis mount enclosed LRS

Specifications

PARAMETER	VALUE
Cooling	forced air or convection per LRS-58 chassis; confirm fan on the unit
Protection	overcurrent / overvoltage class Lambda LRS switchers
AC Input	Lambda LRS wide-range or selectable AC; confirm 115/230 on the nameplate

Specifications

PARAMETER	VALUE
Not Mean Well LRS	Mean Well LRS-50-24 is 24 V 2.2 A 50 W and isadifferent manufacturer
Identity Rule	keep LRS-58-24 current off the LRS-54-24 4.5-11.5 A row
Duty	continuous industrial DC within nameplate ratings

Specifications

PARAMETER	VALUE
Connections	barrier or terminal block class LRS enclosed
Adjustment	output trim class Lambda LRS 24 V
Status	legacy Lambda LRS-50 series

Notes

Verified identity is Lambda LRS-58-24 at 24 Vdc. Current is nameplate-specific. Artisan documents LRS-54-24 at 24 V plus/minus 5% and 4.5-11.5 A; do not copy that current onto LRS-58. Do not use Mean Well LRS ratings or unverified 44 A figures.

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.