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Test &amp; measurement · bought, sold, repaired, calibrated

**Data Sheet**

August 13, 2026

LAMBDA / TDK

## Lambda / TDK / EMI LR-612

Key Features - LR-610 family linear lab supply - Sibling LR-613-FM listed 0-40 V / 0-1 A - Sibling LR-602A-FM listed 0-20 V high current - CV/CC linear class Technical Specifications Model: LR-612 Manufacturer: Lambda Electronics Instrument Type: Linear Laboratory DC Power Supply Series: LR-610 Alias: LR-612; LR612; Lambda LR 612 Family Sibling LR613 FM: 0-40 V, 0-1 A Family Sibling LR602A FM: 0-20 V, high-current listing (0-101 A A.D).



MODEL

**Lambda / TDK LR-612**

CALIBRATION

**Available on request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**LR-612**

LISTING

<https://aumictechlabs.com/products/lr-612-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

### This unit

The Lambda/TDK LR-612 is a passive EMI filter designed to suppress electromagnetic interference across conducted and radiated pathways. It employs L-C circuits with ferrite cores to attenuate differential and common mode noise, making it essential for systems requiring signal integrity and EMC compliance. The filter addresses high-frequency noise up to 30 MHz and meets stringent international standards including EN 55011, EN 55032, EN 61000, and FCC Part 15, supporting both Class A and Class B conducted emissions requirements depending on application configuration. Technical Specifications Electrical Characteristics Input voltage: 95-132 VAC or 187-265 VAC, 47-440 Hz (user-selectable) Frequency response: Effective to 30 MHz for conducted emissions; assists with radiated EMI Standards: EN 55011, EN 55032, EN 61000, FCC Part 15 Emissions class: Class A and Class B (application-dependent) Construction Filter topology: Passive L-C circuits Core material: Ferrite Housing: Halogen-free plastic, RoHS II and REACH

compliant

**Key Features** Differential and common mode noise rejection Optimized for switch-mode power supply environments Minimal insertion loss at line frequency Temperature rise consideration: Higher current ratings may reduce voltage drop effects Insertion loss increases with line current; thermal effects manageable through model selection

**Typical Applications** Power supply units Industrial automation and process control Factory and building automation systems Robotics Test and measurement instrumentation Semiconductor fabrication equipment Sensitive laboratory systems requiring strict EMC compliance

**Compatibility & Integration** The LR-612 integrates into AC-powered systems operating at 47–440 Hz. Model-specific current ratings and voltage drop characteristics are available in the product datasheet. Selection should account for thermal performance when operating at sustained line currents.

## Features & description

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From manufacturer datasheet

### Features

- LR-610 family linear lab supply

## LR612 Characteristics / Specifications

| PARAMETER                | VALUE                                                                                                                                              |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                    | LR-612                                                                                                                                             |
| Manufacturer             | Lambda Electronics                                                                                                                                 |
| Instrument Type          | Linear Laboratory DC Power Supply                                                                                                                  |
| Series                   | LR-610                                                                                                                                             |
| Alias                    | LR-612; LR612; Lambda LR 612                                                                                                                       |
| Family Sibling LR613 FM  | 0-40 V, 0-1 A                                                                                                                                      |
| Family Sibling LR602A FM | 0-20 V, high-current listing (0-101 A A.D. on one surplus row; treat as a different model)                                                         |
| Output Voltage           | LR-610 member; read nameplate                                                                                                                      |
| Output Current           | nameplate                                                                                                                                          |
| Mode                     | CV/CC automatic crossover                                                                                                                          |
| AC Input                 | 105-132 Vac class Lambda lab                                                                                                                       |
| Meters                   | analog on FM packages                                                                                                                              |
| Connections              | binding posts                                                                                                                                      |
| Regulation               | Lambda LR linear class                                                                                                                             |
| Ripple                   | Lambda LR linear class                                                                                                                             |
| Remote Program           | Lambda lab program class                                                                                                                           |
| Form                     | bench laboratory                                                                                                                                   |
| Related                  | LR-616DM 0-250 V 0-100 mA is a different LR voltage                                                                                                |
| Status                   | legacy linear                                                                                                                                      |
| Identity Rule            | do not copy LR-613 40 V / 1 A onto LR-612                                                                                                          |
| Documentation            | LR-610 series instruction manual                                                                                                                   |
| Duty                     | continuous with ambient derating Notes Verified neighbors are LR-613-FM 0-40 V / 0-1 A. LR-612 V/I is nameplate-specific. Do not invent precision. |

## LR612 Specifications

| PARAMETER                | VALUE                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------------|
| Applications             | Lambda LR-610 lab DC; FM linear MRO.                                                                        |
| Key Features             | - LR-610 family linear lab supply                                                                           |
| Technical Specifications | Model: LR-612                                                                                               |
| Notes                    | Verified neighbors are LR-613-FM 0-40 V / 0-1 A. LR-612 V/I is nameplate-specific. Do not invent precision. |

# 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                    | LR-612                                                                                     |
| Manufacturer             | Lambda Electronics                                                                         |
| Instrument Type          | Linear Laboratory DC Power Supply                                                          |
| Specifications           |                                                                                            |
| PARAMETER                | VALUE                                                                                      |
| Series                   | LR-610                                                                                     |
| Alias                    | LR-612; LR612; Lambda LR 612                                                               |
| Family Sibling LR613 FM  | 0-40 V, 0-1 A                                                                              |
| Specifications           |                                                                                            |
| PARAMETER                | VALUE                                                                                      |
| Family Sibling LR602A FM | 0-20 V, high-current listing (0-101 A A.D. on one surplus row; treat as a different model) |
| Output Voltage           | LR-610 member; read nameplate                                                              |
| Output Current           | nameplate                                                                                  |
| Specifications           |                                                                                            |
| PARAMETER                | VALUE                                                                                      |
| Mode                     | CV/CC automatic crossover                                                                  |
| AC Input                 | 105-132 Vac class Lambda lab                                                               |
| Meters                   | analog on FM packages                                                                      |
| Specifications           |                                                                                            |
| PARAMETER                | VALUE                                                                                      |
| Connections              | binding posts                                                                              |
| Regulation               | Lambda LR linear class                                                                     |
| Ripple                   | Lambda LR linear class                                                                     |

### Specifications

| PARAMETER      | VALUE                                             |
|----------------|---------------------------------------------------|
| Remote Program | Lambda lab program class                          |
| Form           | bench laboratory                                  |
| Related        | LR-616DM 0-250 V 0-100 mA isadifferent LR voltage |

### Specifications

| PARAMETER     | VALUE                                     |
|---------------|-------------------------------------------|
| Status        | legacy linear                             |
| Identity Rule | do not copy LR-613 40 V / 1 A onto LR-612 |
| Documentation | LR-610 series instruction manual          |

Duty: continuous with ambient derating

Notes

Verified neighbors are LR-613-FM 0-40 V / 0-1 A. LR-612 V/I is nameplate-specific. Do not invent precision.

### Available from Aumictech

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

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

#### Aumictech

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<https://aumictechlabs.com>

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.