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Data Sheet

August 13, 2026

LAMBDA / TDK

Lambda / TDK / EMI LP531-FM

The Lambda LP531-FM is a compact and efficient power supply module from TDK-Lambda. It delivers reliable DC power for a variety of industrial and embedded applications. Featuring a wide input voltage range, solid design, and comprehensive protection features, the LP531-FM ensures stable and safe operation in demanding environments. Its compact form factor allows for easy integration into space-constrained systems.



MODEL

**Lambda / TDK
LP531-FM**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

LP531-FM

LISTING

<https://aumictechlabs.com/products/lp531-fm-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The TDK-Lambda LP531-FM is a regulated DC power supply delivering 0–20 VDC at up to 5.7 A (114 W) for industrial and laboratory test benches. It combines precision voltage regulation with electronic current limiting, dual front-panel meters, and remote sensing capability to compensate for lead resistance. Designed for continuous duty from 0°C to +60°C, the unit operates from 105–132 VAC input and features both coarse and fine adjustment controls for voltage and current, plus integrated short-circuit protection and thermostat-based thermal shutdown with automatic reset.

Technical Specifications
Output voltage: 0–20 VDC
Maximum output current: 5.7 A
Output power: 114 W
Voltage regulation (line/load): <0.2% or 5 mA, whichever is greater
Voltage regulation (typical): 0.01% + 1 mV
Ripple (RMS, typical): 500 µV
AC input: 105–132 VAC, 47–440 Hz (ratings based on 57–63 Hz)
Operating temperature: 0°C to +60°C (continuous duty)
Storage

temperature: -55°C to $+85^{\circ}\text{C}$ Cooling method: Convection cooled Dimensions: $5\text{-}\frac{3}{16}\text{"}$ W $\times$ $8\text{-}\frac{3}{8}\text{"}$ H $\times$ $15\text{-}\frac{5}{8}\text{"}$ D Net weight: ~7 lbs

Key Features Adjustable electronic current limiting to 105% of rated current Coarse and fine voltage adjustment controls; single current adjustment control Voltmeter and ammeter display on front panel Remote sensing input to eliminate output lead voltage drop effects Short-circuit proof with continuously adjustable current limiting Thermal overload protection with automatic reset Internal fuse protection Power On-Off switch with indicator light

Interfaces & Connectivity AC input: Covered terminal block (rear) DC output: Covered terminal block (rear) plus five-way binding posts (front panel) for positive, ground, and negative connections

Typical Applications Bench-top testing, circuit development, component characterization, and equipment calibration in environments where stable, adjustable low-voltage DC is required.

Features & description

From manufacturer datasheet

Features

- LP-530 family linear lab supply, FM metered package

LP531FM Characteristics / Specifications

PARAMETER	VALUE
Model	LP531-FM
Manufacturer	Lambda Electronics
Instrument Type	Linear Laboratory DC Power Supply
Series	LP-530
Alias	LP531-FM; LP-531-FM; Lambda LP 531 FM
Package	FM metered laboratory chassis
Family Sibling LP533 FM	0-60 V, 0-2.4 A (Selectron/catalog row; not this model's rating)
Output Voltage	LP-530 lower-voltage member; read nameplate (do not assume 60 V)
Output Current	nameplate (do not copy 2.4 A from LP-533)
Mode	CV/CC automatic crossover (Lambda LP lab class)
Regulation	Lambda LP linear class; exact % on the LP-530 sheet
Ripple	Lambda LP linear class; exact uV on the sheet
AC Input	105-132 Vac, 47-440 Hz class Lambda lab
Meters	analog voltmeter and ammeter (FM)
Connections	front binding posts; rear barrier class
Remote Program	resistor/voltage program class on Lambda LP/LQ/LPD lab lines
Ambient	0-60 C derated current columns typical of Lambda lab
Mounting	bench FM chassis
Related	LP533 / LP533-FM is 0-60 V
Status	legacy linear
Identity Rule	keep LP-531 ratings off the LP-533 60 V / 2.4 A row
Construction	linear series regulator laboratory chassis
Cooling	convection class LP chassis Notes Verified sibling is LP-533-FM at 0-60 V / 0-2.4 A. LP-531-FM V/I is nameplate-specific. Do not invent 20 V current.

LP531FM Specifications

PARAMETER	VALUE
Applications	Lambda LP-530 lab benches; FM metered linear DC; MRO of LP531-FM chassis.
Key Features	- LP-530 family linear lab supply, FM metered package
Technical Specifications	Model: LP531-FM
Notes	Verified sibling is LP-533-FM at 0-60 V / 0-2.4 A. LP-531-FM V/I is nameplate-specific. Do not invent 20 V current.

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	LP531-FM
Manufacturer	Lambda Electronics
Instrument Type	Linear Laboratory DC Power Supply
Specifications	
PARAMETER	VALUE
Series	LP-530
Alias	LP531-FM; LP-531-FM; Lambda LP 531 FM
Package	FM metered laboratory chassis
Specifications	
PARAMETER	VALUE
Family Sibling LP533 FM	0-60 V, 0-2.4 A (Selectron/catalog row; not this model's rating)
Output Voltage	LP-530 lower-voltage member; read nameplate (do not assume 60 V)
Output Current	nameplate (do not copy 2.4 A from LP-533)
Specifications	
PARAMETER	VALUE
Mode	CV/CC automatic crossover (Lambda LP lab class)
Regulation	Lambda LP linear class; exact % on the LP-530 sheet
Ripple	Lambda LP linear class; exact uV on the sheet
Specifications	
PARAMETER	VALUE
AC Input	105-132 Vac, 47-440 Hz class Lambda lab
Meters	analog voltmeter and ammeter (FM)
Connections	front binding posts; rear barrier class

Specifications

PARAMETER	VALUE
Remote Program	resistor/voltage program class on Lambda LP/LQ/LPD lab lines
Ambient	0-60 C derated current columns typical of Lambda lab
Mounting	bench FM chassis

Specifications

PARAMETER	VALUE
Related	LP533 / LP533-FM is 0-60 V
Status	legacy linear
Identity Rule	keep LP-531 ratings off the LP-533 60 V / 2.4 A row

Construction: linear series regulator laboratory chassis

Cooling: convection class LP chassis

Notes

Verified sibling is LP-533-FM at 0-60 V / 0-2.4 A. LP-531-FM V/I is nameplate-specific. Do not invent 20 V current.

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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<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.