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Data Sheet

August 13, 2026

LAMBDA / TDK / EMI

Lambda / TDK / EMI LNS-X-5-OV

Manufacturer: Lambda Electronics (Veeco Instruments Lambda Div, CAGE 80103) Instrument Type: Single Output Linear Power Module Alias: LNS-X-5-OV; LNSX5OV; Lambda LNS X 5 OV Output Voltage: 4.8 to 5.2 Vdc (5 V nominal) Instrument Type: Single Output Linear Power Module Alias: LNS-X-5-OV; LNSX5OV; Lambda LNS X 5 OV Output Voltage: 4.8 to 5.2 Vdc (5 V nominal) Output Current: 5.3 Adc minimum to 10.0 Adc maximum (ambient columns)

**MODEL****Lambda / TDK /
EMI LNS-X-5-OV****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****LNS-X-5-OV****LISTING**<https://aumictechlabs.com/products/lms-x-5-ov-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The TDK Lambda LNS-X-5-OV is a regulated linear power supply delivering 5 VDC at up to 10 A (180 W maximum) for industrial and commercial applications demanding stable output and low noise. Part of the LN Series, this convection-cooled unit features exceptional ripple and noise performance - 1.5 mV RMS, 5 mV peak-to-peak - making it ideal for sensitive analog circuits, medical equipment, and test instrumentation. Heavy-duty screw terminal connections and remote sensing capability ensure reliable integration into demanding systems. Technical Specifications Electrical Performance Output: 5 VDC nominal Maximum output current: 10 A (derated to 6.4 A at 71°C ambient) Maximum output power: 180 W Input voltage: 105–127 VAC or 210–250 VAC (selectable by transformer tap), 47–440 Hz Ripple and noise: 1.5 mV RMS, 5 mV peak-to-peak Temperature coefficient: 0.03% per °C Line regulation: 0.03% per °C Load regulation: 0.03% per

°C DC-to-ground isolation: minimum 10 MΩ at 750 VDC Transformer isolation: 4000 VAC input/output; MIL-T-27C Grade 6 with electrostatic shield Environmental Operating temperature: 0°C to +71°C continuous Storage temperature: -55°C to +85°C Cooling: natural convection; no external heat sinking or forced air required

Key Features Overvoltage protection standard on 5 V models; crowbar circuit limits output excursions Rugged industrial construction; 5-year warranty MIL-F-61810 compliance for conducted and radiated EMI (one output grounded) UL Recognized and CSA Certified Remote sensing provision eliminates voltage drop effects across output leads Fungus-proof; no nutrient material in construction

Typical Applications Sensitive analog and precision measurement circuits Medical and laboratory test instrumentation Industrial control and automation systems Applications requiring sub-millivolt ripple performance

Compatibility & Integration Flexible input voltage selection via transformer tap change accommodates 105–127 VAC or 210–250 VAC, 47–440 Hz operation. Heavy-duty screw terminals enable direct board mounting. Remote sensing connections allow external regulation at the load point, preserving accuracy in distributed power architectures.

Features & description

From manufacturer datasheet

Features

- 5 V (4.8-5.2 V) single output with OV option

LNSX50V Characteristics / Specifications

PARAMETER	VALUE
Model	LNS-X-5-OV
Manufacturer	Lambda Electronics (Veeco Instruments Lambda Div, CAGE 80103)
Instrument Type	Single Output Linear Power Module
Series	LNS-X
Alias	LNS-X-5-OV; LNSX50V; Lambda LNS X 5 OV
Output Voltage	4.8 to 5.2 Vdc (5 V nominal)
Output Current	5.3 Adc minimum to 10.0 Adc maximum (ambient columns)
OV Option	overvoltage protection included (OV suffix)
AC Input Low	105 to 127 Vac
AC Input High	210 to 254 Vac
Input Frequency	47 to 440 Hz both ranges
Phase	single phase
Rectification	single phase full wave center tap (NSN sheet)
Output Control	voltage adjustment, 1 control
Output Connections	2, terminal strip
Overall Length	7.000 in nominal
Overall Width	4.875 in nominal
Overall Height	2.875 in nominal
Operating Ambient	+0.1 to 71.0 C (NSN sheet range)
FSC	6130 nonrotating electrical converters
Form	LNS-X case slot/module
Related LNS W	LNS-W is the W-case outline of the same 5 V OV electrical class
Related LNS Z	LNS-Z-5-OV is a smaller Z-case 5 V OV cousin; do not mix outlines Notes Specs from NSN/aerospace sheet for LNS-X-5-OV (CAGE 80103) and Lambda LNS-X identity. Confirm 5.3 vs 10 A ambient column on the Lambda LNS-X current table.

LNSX50V Specifications

PARAMETER	VALUE
Applications	5 V logic rail with OV crowbar in Lambda LNS-X slot/module form; mil/aero MRO of LNS-X-5-OV.
Key Features	- 5 V (4.8-5.2 V) single output with OV option
Technical Specifications	Model: LNS-X-5-OV

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	LNS-X-5-0V
Manufacturer	Lambda Electronics (Veeco Instruments Lambda Div, CAGE 80103)
Instrument Type	Single Output Linear Power Module
Specifications	
PARAMETER	VALUE
Series	LNS-X
Alias	LNS-X-5-0V; LNSX50V; Lambda LNS X 5 0V
Output Voltage	4.8 to 5.2 Vdc (5 V nominal)
Specifications	
PARAMETER	VALUE
Output Current	5.3 Adc minimum to 10.0 Adc maximum (ambient columns)
OV Option	overvoltage protection included (OV suffix)
AC Input Low	105 to 127 Vac
Specifications	
PARAMETER	VALUE
AC Input High	210 to 254 Vac
Input Frequency	47 to 440 Hz both ranges
Phase	single phase
Specifications	
PARAMETER	VALUE
Rectification	single phase full wave center tap (NSN sheet)
Output Control	voltage adjustment, 1 control
Output Connections	2, terminal strip

Specifications

PARAMETER	VALUE
Overall Length	7.000 in nominal
Overall Width	4.875 in nominal
Overall Height	2.875 in nominal

Specifications

PARAMETER	VALUE
Operating Ambient	+0.1 to 71.0 C (NSN sheet range)
FSC	6130 nonrotating electrical converters
Form	LNS-X case slot/module

Related LNS W: LNS-W is the W-case outline of the same 5 V 0V electrical class

Related LNS Z: LNS-Z-5-0V isasmaller Z-case 5 V 0V cousin; do not mix outlines

Notes

Specs from NSN/aerospace sheet for LNS-X-5-0V (CAGE 80103) and Lambda LNS-X identity. Confirm 5.3 vs 10 A ambient column on the Lambda LNS-X current table.

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>

NIST-traceable calibration · SAM registered ·
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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.