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Data Sheet

August 13, 2026

LAMBDA / TDK / EMI

Lambda / TDK / EMI NV-175

TDK-Lambda NV175 Series 175-200 W Modular AC-DC Power Supply The TDK-Lambda NV175 is a 175-200 W, 3 by 5 inch modular AC-DC power supply with 1 to 5 outputs, active PFC, and universal 90-264 Vac input. Efficiency is up to 90% depending on configuration. No minimum load. Medical and ITE safety paths are cataloged (basic insulation input-output on medical-approval variants). Output voltages are configuration-specific; this file records family electrical identity from the NV175 series datasheet. Medical and ITE embedded power; multi-rail 3×5 platforms; PFC-compliant equipment needing 175-200 W without minimum loads. The TDK-Lambda NV175 is a 175-200 W, 3 by 5 inch modular AC-DC power supply with 1 to 5 outputs, active PFC, and universal 90-264 Vac input. Efficiency is up to 90% depending on configuration. No minimum load. Medical and ITE safety paths are cataloged (basic insulation input-output on medical-approval variants). Output voltages are configuration-specific; this file records family electrical identity from the NV175 series datasheet. Medical and ITE embedded power; multi-rail 3×5 platforms; PFC-compliant equipment needing 175-200 W without minimum loads.

**MODEL****Lambda / TDK /
EMI NV-175****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****NV-175****LISTING**[https://aumictechlabs.c
om/products/nv-175-2/](https://aumictechlabs.com/products/nv-175-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The TDK-Lambda NV-175 is a configurable AC/DC power supply for industrial, commercial, and medical applications. Delivering 175W, 180W, or 200W depending on configuration, this compact

3" x 5" module integrates into host equipment with high efficiency up to 90% and power density suitable for sensitive electronics. Universal input acceptance (90–264VAC, 47–63Hz, also 440Hz with reduced PFC) combined with active power factor correction and 1–5 configurable output channels makes the NV-175 adaptable to diverse system requirements.

Technical Specifications

Output Power: 175W, 180W, or 200W (configuration dependent; 5V Channel 1 models typically limited to 175W) Input Voltage: 90–264VAC, 47–63Hz; 440Hz capable with reduced PFC Number of Outputs: 1 to 5 configurable outputs Efficiency: Up to 90% Power Factor Correction: Active PFC, EN61000-3-2 compliant (0.97 typical) Inrush Current: 16ms at 90VAC input Turn-On Time: 1.5s max at 90VAC and 100% rated output power Total Regulation: 1% including line, load, and cross-regulation (0–100% load change) Voltage Accuracy: $\pm 1\%$; $\pm 4\%$ for Channel 4 'T'/'F' types; $+4\%/-3\%$ for other Channel 4 outputs Ripple & Noise: 105% of rated output Overvoltage Protection: 120–130% of nominal output (CH1 & CH2); resets via AC line cycling Overtemperature Protection: Yes Isolation Input to Ground: 2.3kVDC (1 $\times$ MOOP) Isolation Input to Output: 4.3kVDC (2 $\times$ MOOPs; medical reinforced version available) Isolation Output to Ground: 200VDC

Key Features Remote sense capability on CH1 & CH2 (0.5V max compensation) DC Good signal on CH1 only (90% nominal $\pm 5\%$) Remote on/off control with TTL-level switching No minimum load requirement Field-installable output connectors

Typical Applications Industrial control systems, medical instrumentation, commercial equipment requiring multi-rail isolated power conversion with high reliability and compact integration.

Features & description

From manufacturer datasheet

Features

- 175-200 W, 3 in x 5 in footprint (1.25 in height without cover)

NV175 Characteristics / Specifications

PARAMETER	VALUE
Model	NV-175
Manufacturer	TDK-Lambda
Instrument Type	Modular AC-DC Power Supply
Series	NV175
Alias	NV-175; NV175; TDK-Lambda NV175
Rated Power	175 to 200 W (configuration dependent)
Output Count	1 to 5
Input Voltage	90 to 264 Vac
Input Frequency	47 to 63 Hz (440 Hz with reduced PFC)
Inrush Current	less than 40 A at 25 C and 230 Vac, cold start
Power Factor	0.97 typical; EN61000-3-2 compliant
Regulation Total	1% including line (90-264 Vac), load (0-100%), and cross (0-100% on any other output)
Ripple And Noise	1% or 50 mV, whichever is greater
Efficiency	up to 90%, configuration dependent
Minimum Load	none
Overcurrent Protection	greater than 105%
Overvoltage Protection	CH1 and CH2, 120-130%, cycle AC line to reset
Overtemperature Protection	yes
Hold Up Time	greater than 16 ms at 90 Vac typical
Leakage 120 Vac	123 uA at 60 Hz (type test)
Leakage 240 Vac	257 uA at 60 Hz (type test)
Leakage 264 Vac	less than 300 uA at 63 Hz (type test)
Remote Sense	CH1 and CH2, 0.5 V compensation maximum
DC Good	CH1 only, high on fail (90% of nominal +/-5%)
Isolation Input Ground	2.3 kVdc

PARAMETER	VALUE
Isolation Input Output	4.3 kVdc
Isolation Output Ground	200 Vdc
Operating Temperature	0 to +70 C; derate linearly to 50% load from 50 C to 70 C
Storage Temperature	-40 to +85 C
Weight	250 g typical
Size Without Cover	3 in x 5 in x 1.25 in NOption Size: 3.7 in x 5 in x 1.25 in
Emissions Conducted	EN55022 ClassB Emissions Radiated: EN55022 ClassA Safety Approvals: UL/CSA/IEC/EN 60950-1; UL/CSA/IEC/EN 60601-1; IEC/EN 61010-1 class
Configuration Note	exact CH1/CH2/CH3 voltages are module-code specific; read the configuration string on the unit Notes Specs from TDK-Lambda NV175 series datasheet. NV-175 isaconfigurable multi-output family; do not inventasingle V/I pair. Confirm output module codes on the label.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 to +85 C
Operating temperature	0 to +70 C; derate linearly to 50% load from 50 C to 70 C
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Weight	250 g typical
Size Without Cover	3 in x 5 in x 1.25 in NOption Size: 3.7 in x 5 in x 1.25 in
Emissions Conducted	EN55022 ClassB Emissions Radiated: EN55022 ClassA Safety Approvals: UL/CSA/IEC/EN 60950-1; UL/CSA/IEC/EN 60601-1; IEC/EN 61010-1 class
Configuration Note	exact CH1/CH2/CH3 voltages are module-code specific; read the configuration string on the unit Notes Specs from TDK-Lambda NV175 series datasheet. NV-175 isaconfigurable multi-output family; do not inventasingle V/I pair. Confirm output module codes on the label.

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	NV-175
Manufacturer	TDK-Lambda
Instrument Type	Modular AC-DC Power Supply
Specifications	
PARAMETER	VALUE
Series	NV175
Alias	NV-175; NV175; TDK-Lambda NV175
Rated Power	175 to 200 W (configuration dependent)
Specifications	
PARAMETER	VALUE
Output Count	1 to 5
Input Voltage	90 to 264 Vac
Input Frequency	47 to 63 Hz (440 Hz with reduced PFC)
Specifications	
PARAMETER	VALUE
Inrush Current	less than 40 A at 25 C and 230 Vac, cold start
Power Factor	0.97 typical; EN61000-3-2 compliant
Regulation Total	1% including line (90-264 Vac), load (0-100%), and cross (0-100% on any other output)
Specifications	
PARAMETER	VALUE
Ripple And Noise	1% or 50 mV, whichever is greater
Efficiency	up to 90%, configuration dependent
Minimum Load	none

Specifications

PARAMETER	VALUE
Overcurrent Protection	greater than 105%
Overvoltage Protection	CH1 and CH2, 120-130%, cycle AC line to reset
Overtemperature Protection	yes

Specifications

PARAMETER	VALUE
Hold Up Time	greater than 16 ms at 90 Vac typical
Leakage 120 Vac	123 uA at 60 Hz (type test)
Leakage 240 Vac	257 uA at 60 Hz (type test)

Specifications

PARAMETER	VALUE
Leakage 264 Vac	less than 300 uA at 63 Hz (type test)
Remote Sense	CH1 and CH2, 0.5 V compensation maximum
DC Good	CH1 only, high on fail (90% of nominal +/-5%)

Specifications

PARAMETER	VALUE
Isolation Input Ground	2.3 kVdc
Isolation Input Output	4.3 kVdc
Isolation Output Ground	200 Vdc

Specifications

PARAMETER	VALUE
Operating Temperature	0 to +70 C; derate linearly to 50% load from 50 C to 70 C
Storage Temperature	-40 to +85 C
Weight	250 g typical

Specifications

PARAMETER	VALUE
Size Without Cover	3 in x 5 in x 1.25 in NOption Size: 3.7 in x 5 in x 1.25 in
Emissions Conducted	EN55022 ClassB Emissions Radiated: EN55022 ClassA Safety Approvals: UL/CSA/IEC/EN 60950-1; UL/CSA/IEC/EN 60601-1; IEC/EN 61010-1 class

PARAMETER

VALUE

Configuration Note

exact CH1/CH2/CH3 voltages are module-code specific; read the configuration string on the unit

Notes

Specs from TDK-Lambda NV175 series datasheet. NV-175 is a configurable multi-output family; do not invent a single V/I pair. Confirm output module codes on the label.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.