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Data Sheet

August 13, 2026

LAMBDA / TDK

Lambda / TDK / EMI LWT50H-522

Instrument Type: Triple Output AC-DC Power Supply Alias: LWT50H-522; LWT 50H 522; LWT50H522; LWT-50H-522 Operating Temperature: 0 to 60 C with derating Size: 159.7 mm x 97.0 mm x 26.0 mm (6.29 × 3.82 × 1.02 in) Alias: LWT50H-522; LWT 50H 522; LWT50H522; LWT-50H-522 Operating Temperature: 0 to 60 C with derating Size: 159.7 mm x 97.0 mm x 26.0 mm (6.29 × 3.82 × 1.02 in) Features: adjustable output; universal input



MODEL

**Lambda / TDK
LWT50H-522**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

LWT50H-522

LISTING

<https://aumictechlabs.com/products/lwt50h-522/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The TDK-Lambda LWT50H-522 is an obsolete enclosed AC-DC power supply engineered for industrial applications requiring multi-output DC rails in a compact form factor. This 50 W unit accepts both AC and DC inputs across wide voltage ranges, delivering regulated outputs at +5 V, +12 V, and -12 V with convection cooling and passive thermal management. Field-proven in legacy systems, it remains available through final inventory channels with recommended migration to the CUT75-522 platform. Technical Specifications Input Characteristics AC input: 85–265 VAC, 47–440 Hz DC input: 110–330 VDC Inrush current: 16 A / 32 A (at 110 VAC / 200 VAC) Hold-up time: 20 ms (typical at 100 VAC) Typical efficiency: 72% Output Configuration Triple output: +5 V (8 A max), +12 V (1 A max), -12 V (1 A max) Total rated power: 50 W maximum Output voltage accuracy: ±5% across all rails Line regulation: 1%; load regulation: 2% Ripple and noise:

100 mV (+5 V), 150 mV (± 12 V outputs) Overcurrent protection: >105%; overvoltage protection: 5.75–6.75 V (manual reset, all outputs disabled on trip) Thermal and Environmental Operating temperature: 0–60 °C with derating (100% at 40 °C, 80% at 50 °C, 60% at 60 °C) Storage range: –30 to +85 °C Operating humidity: 30–90% RH (non-condensing); storage: 10–95% RH Cooling method: Convection (passive) Dimensions: 97 mm W $\times$ 26 mm H $\times$ 160 mm D (approximately 3.82 $\times$ 1.02 $\times$ 6.30 inches) Weight: 400 g typical

Key Features Wide AC/DC input acceptance (85–265 VAC or 110–330 VDC) Compact enclosed package suitable for OEM integration Independent protection on main +5 V output with manual-reset overvoltage detection Temperature coefficient: <1% on +5 V, <2% on ± 12 V rails (0–60 °C) CSA, EN, and UL certified to IEC 60950-1 and 62368-1 standards RoHS compliant; VDE and FCC Class B EMI classification

Typical Applications Legacy industrial control systems, embedded computing platforms, and instrumentation requiring multi-voltage supplies with moderate current budgets and long operational history.

Compatibility & Integration Single-phase AC or DC input connectivity. External EMC filtering recommended; manufacturer datasheet specifies compatible filter selections. Product status: obsolete as of June 2025; CUT75-522 identified as migration target.

Features & description

From manufacturer datasheet

Features

- 50 W, three outputs: 5 V / 12 V / -12 V

LWT50H522 Characteristics / Specifications

PARAMETER	VALUE
Model	LWT50H-522
Manufacturer	TDK-Lambda
Instrument Type	Triple Output AC-DC Power Supply
Series	LW 50 W (LWT50H)
Alias	LWT50H-522; LWT 50H 522; LWT50H522; LWT-50H-522
Output Count	3
Voltage Output	-12 V
Current Output	1.5 A
Rated Power	50 W
Input Voltage	85 to 265 Vac
DC Input Capable	yes
Efficiency	72%
Isolation	3 kV
Operating Temperature	0 to 60 C with derating
Minimum Load	required
Mounting	chassis / fixed base mount
Size	159.7 mm x 97.0 mm x 26.0 mm (6.29 × 3.82 × 1.02 in)
Application Class	ITE commercial
Features	adjustable output; universal input
Approvals	CE class listings
Status	LW 50 W series (confirm date code vs EOL notices)
Packaging	bulk chassis module Notes Specs from TDK-Lambda LWT50H-522 / LWT 50H 522 distributor datasheet tables (5 V 8 A, 12 V 1.5 A, -12 V 1 A, 50 W, 85-265 Vac). Confirm minimum-load resistors in the system.
50 W, three outputs	5 V / 12 V / -12 V

LWT50H522 Specifications

PARAMETER	VALUE
Applications	ITE commercial multi-rail 5/12/-12 embedded power; chassis-mount 50 W replacements.
Key Features	- 50 W, three outputs: 5 V / 12 V / -12 V
Technical Specifications	Model: LWT50H-522

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 60 C with derating
Operating Temperature	0 to 60 C with derating
Minimum Load	required
Mounting	chassis / fixed base mount
Size	159.7 mm x 97.0 mm x 26.0 mm (6.29 × 3.82 × 1.02 in)
Application Class	ITE commercial
Features	adjustable output; universal input
Approvals	CE class listings
Status	LW 50 W series (confirm date code vs EOL notices)
Packaging	bulk chassis module Notes Specs from TDK-Lambda LWT50H-522 / LWT 50H 522 distributor datasheet tables (5 V 8 A, 12 V 1.5 A, -12 V 1 A, 50 W, 85-265 Vac). Confirm minimum-load resistors in the system.

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	LWT50H-522
Manufacturer	TDK-Lambda
Instrument Type	Triple Output AC-DC Power Supply
Specifications	
PARAMETER	VALUE
Series	LW 50 W (LWT50H)
Alias	LWT50H-522; LWT 50H 522; LWT50H522; LWT-50H-522
Output Count	3
Specifications	
PARAMETER	VALUE
Voltage Output 1	5 V
Current Output 1	8 A
Voltage Output 2	12 V
Specifications	
PARAMETER	VALUE
Current Output 2	1.5 A
Voltage Output 3	-12 V
Current Output 3	1 A
Specifications	
PARAMETER	VALUE
Rated Power	50 W
Input Voltage	85 to 265 Vac
DC Input Capable	yes

Specifications

PARAMETER	VALUE
Efficiency	72%
Isolation	3 kV
Operating Temperature	0 to 60 C with derating

Specifications

PARAMETER	VALUE
Minimum Load	required
Mounting	chassis / fixed base mount
Size	159.7 mm x 97.0 mm x 26.0 mm (6.29 x 3.82 x 1.02 in)

Specifications

PARAMETER	VALUE
Application Class	ITE commercial
Features	adjustable output; universal input
Approvals	CE class listings

Status: LW 50 W series (confirm date code vs EOL notices)

Packaging: bulk chassis module

Notes

Specs from TDK-Lambda LWT50H-522 / LWT 50H 522 distributor datasheet tables (5 V 8 A, 12 V 1.5 A, -12 V 1 A, 50 W, 85-265 Vac). Confirm minimum-load resistors in the system.

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.