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Data Sheet

August 13, 2026

LAMBDA / TDK

Lambda / TDK / EMI GEN100-33(N8739A)

The Lambda / TDK / EMI GEN100-33(N8739A) is a 3300W programmable DC power supply from the Genesys™ series, engineered for industrial, laboratory, and OEM applications demanding high reliability and precise output control. This 2U rack-mount or benchtop unit delivers 0–100 VDC at up to 33A with exceptional power density, featuring CV/CC operation with automatic crossover, multiple communication interfaces, and master/slave capability for parallel configurations. Safety: IEC61010-1, UL61010-1, EN61010-1, CSA C22.2 No.61010-1 certified; CE/UKCA compliant Optional: LAN (LXI-compliant Ethernet), USB 2.0, IEEE 488.2 (GPIB), isolated analog programming (5V/10V and 4–20 mA) Aumictech offers NIST-traceable calibration and repair for the Lambda / TDK GEN100-33(N8739A). All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business da



MODEL

**Lambda / TDK
GEN100-
33(N8739A)**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

**GEN100-
33(N8739A)**

LISTING

[https://aumictechlabs.c
om/products/gen100-3
3-n8739a-2/](https://aumictechlabs.com/products/gen100-33-n8739a-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Lambda / TDK / EMI GEN100-33(N8739A) is a 3300W programmable DC power supply from the Genesys™ series, engineered for industrial, laboratory, and OEM applications demanding high reliability and precise output control. This 2U rack-mount or benchtop unit delivers 0–100 VDC at

up to 33A with exceptional power density, featuring CV/CC operation with automatic crossover, multiple communication interfaces, and master/slave capability for parallel configurations.

Technical Specifications

Output Performance Rated power: 3300W Output voltage: 0–100 VDC
Rated current: 33A (0–33A range) Voltage ripple/noise: 0.025 Vrms (5 Hz–1 MHz) Current
ripple/noise: 0.07 Arms (5 Hz–1 MHz) Efficiency: 88% typical Input AC input: Single-phase 230
VAC (170–265 VAC) or three-phase 208/480 VAC options Frequency: 47–63 Hz Active power
factor correction integrated Physical Form factor: 2U rack mount or benchtop Dimensions: 423
mm W × 88 mm H × 442.5 mm D Weight: 13 kg typical Environmental Operating temperature: 0–
50°C Safety: IEC61010-1, UL61010-1, EN61010-1, CSA C22.2 No.61010-1 certified; CE/UKCA
compliant

Key Features Constant voltage/constant current mode with automatic crossover Auto-
restart and safe-start functions Front panel lockout and last setting memory Master/slave mode
supports up to four units in parallel Independent remote ON/OFF and enable/disable control
Remote and local output voltage sense connections Overvoltage, overcurrent, and
overtemperature protection

Interfaces & Control Standard: RS-232, RS-485 Optional: LAN (LXI-
compliant Ethernet), USB 2.0, IEEE 488.2 (GPIB), isolated analog programming (5V/10V and 4–20
mA)

Typical Applications Industrial testing, materials research, OEM manufacturing, battery
charging systems, and automated test environments requiring stable, programmable multi-
kilovolt-ampere supplies.

Features & description

From manufacturer datasheet

Features

- Rated output 0 to 100 Vdc, 0 to 33 A, 3300 W

GEN10033N8739A Characteristics / Specifications

PARAMETER	VALUE
Model	GEN100-33
Manufacturer	TDK-Lambda (Lambda Electronics)
Instrument Type	Programmable DC Power Supply
Series	Genesys
Alias	GEN100-33; GEN 100-33; GEN100-33-1P230; N8739A
Rated Output Voltage	0 to 100 Vdc
Rated Output Current	0 to 33 A
Rated Output Power	3300 W
Voltage Ripple RMS	8 mVrms (Americas Genesys table); TDK product center GEN100-33-1P230 also lists 0.025 Vrms (5 Hz to 1 MHz)
Output Noise PP	80 mV p-p (less than 20 MHz)
Efficiency	88% typical
Construction	2U rack (GEN2U 3300 W)
Output Mode	constant voltage and constant current with automatic crossover
Remote Digital Standard	RS-232 and RS-485
Remote Analog Standard	5 V/10 V program and monitor class
Interface Options	LAN (LXI 1.5); USB 2.0; IEEE 488.2; isolated analog 5 V/10 V; isolated analog 4-20 mA
AC Input Family	worldwide AC with PFC on Genesys family (exact range is faceplate: 85-265 Vac 1-phase on 750 W class; 170-265 Vac 1-phase or 3-phase on 3.3 kW; 3-phase on 5 kW/10 kW/15 kW)
Input Frequency	47 to 63 Hz
Operating Temperature	0 to 50 C (750 W / GENH class tables); confirm higher-power derating on the faceplate manual
Safety Standards	IEC 61010-1; CSA C22.2 No. 61010-1; EN 61010-1; UL 61010-1
Protection	OVP, overtemperature, and current limit / foldback class Genesys features
Parallel Operation	master/slave paralleling per Genesys user manual

PARAMETER	VALUE
Series Operation	permitted within family voltage-to-chassis limits
Programming	front panel and remote digital/analog
Meters	front-panel voltage and current metering
Cooling	forced air, rack/bench Genesys chassis
Status	production Genesys family (not recommended to invent later GENESYS+ ratings on this file)
Keysight Equivalent	N8739A (100 V, 33 A, 3300 W)
AC Input 1P2	170 to 265 Vac single phase
Current Ripple Product Center	0.07 Arms (5 Hz to 1 MHz)
TDK Series Code	GEN2U 3300W Notes Specs from TDK-Lambda Genesys table and TDK product center GEN100-33-1P230. Ripple: Americas table 8 mVrms / 80 mV p-p; product center 0.025 Vrms / 0.07 Arms current ripple. Do not mix N8739A option codes with TDK interface suffixes without the faceplate. Confirm 1-phase vs 3-phase AC.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 50 C (750 W / GENH class tables); confirm higher-power derating on the faceplate manual
Operating Temperature	0 to 50 C (750 W / GENH class tables); confirm higher-power derating on the faceplate manual
Safety Standards	IEC 61010-1; CSA C22.2 No. 61010-1; EN 61010-1; UL 61010-1
Protection	OVP, overtemperature, and current limit / foldback class Genesys features
Parallel Operation	master/slave paralleling per Genesys user manual
Series Operation	permitted within family voltage-to-chassis limits
Programming	front panel and remote digital/analog
Meters	front-panel voltage and current metering
Cooling	forced air, rack/bench Genesys chassis
Status	production Genesys family (not recommended to invent later GENESYS+ ratings on this file)
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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	GEN100-33
Manufacturer	TDK-Lambda (Lambda Electronics)
Instrument Type	Programmable DC Power Supply
Specifications	
PARAMETER	VALUE
Series	Genesys
Alias	GEN100-33; GEN 100-33; GEN100-33-1P230; N8739A
Rated Output Voltage	0 to 100 Vdc
Specifications	
PARAMETER	VALUE
Rated Output Current	0 to 33 A
Rated Output Power	3300 W
Voltage Ripple RMS	8 mVrms (Americas Genesys table); TDK product center GEN100-33-1P230 also lists 0.025 Vrms (5 Hz to 1 MHz)
Specifications	
PARAMETER	VALUE
Output Noise PP	80 mV p-p (less than 20 MHz)
Efficiency	88% typical
Construction	2U rack (GEN2U 3300 W)
Specifications	
PARAMETER	VALUE
Output Mode	constant voltage and constant current with automatic crossover
Remote Digital Standard	RS-232 and RS-485
Remote Analog Standard	5 V/10 V program and monitor class

Interface Options: LAN (LXI 1.5); USB 2.0; IEEE 488.2; isolated analog 5 V/10 V; isolated analog 4-20 mA

AC Input Family: worldwide AC with PFC on Genesys family (exact range is faceplate: 85-265 Vac 1-phase on 750 W class; 170-265 Vac 1-phase or 3-phase on 3.3 kW; 3-phase on 5 kW/10 kW/15 kW)

Specifications

PARAMETER	VALUE
Input Frequency	47 to 63 Hz
Operating Temperature	0 to 50 C (750 W / GENH class tables); confirm higher-power derating on the faceplate manual
Safety Standards	IEC 61010-1; CSA C22.2 No. 61010-1; EN 61010-1; UL 61010-1

Specifications

PARAMETER	VALUE
Protection	OVP, overtemperature, and current limit / foldback class Genesys features
Parallel Operation	master/slave paralleling per Genesys user manual
Series Operation	permitted within family voltage-to-chassis limits

Specifications

PARAMETER	VALUE
Programming	front panel and remote digital/analog
Meters	front-panel voltage and current metering
Cooling	forced air, rack/bench Genesys chassis

Specifications

PARAMETER	VALUE
Status	production Genesys family (not recommended to invent later GENESYS+ ratings on this file)
Keysight Equivalent	N8739A (100 V, 33 A, 3300 W)
AC Input 1P230	170 to 265 Vac single phase

Current Ripple Product Center: 0.07 Arms (5 Hz to 1 MHz)

TDK Series Code: GEN2U 3300W

Notes

Specs from TDK-Lambda Genesys table and TDK product center GEN100-33-1P230. Ripple: Americas table 8 mVrms / 80 mV p-p; product center 0.025 Vrms / 0.07 Arms current ripple. Do not mix N8739A option codes with TDK interface suffixes without the faceplate. Confirm 1-phase vs 3-phase AC.

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.