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**Data Sheet**

August 13, 2026

LAMBDA / TDK

## Lambda / TDK / EMI GEN300-5

TDK-Lambda Genesys GEN300-5 Programmable DC Supply 0-300 V 0-5 A 1500 W The TDK-Lambda (Lambda) Genesys GEN300-5 is a programmable DC power supply rated 0 to 300 Vdc and 0 to 5 A (1500 W). Construction is 1U rack. Constant voltage and constant current modes crossover automatically. Built-in RS-232/RS-485 and remote analog program/monitor are standard. Optional LAN (LXI), USB, IEEE-488, and isolated analog interfaces are catalog options. 1.5 kW 1U Genesys 300 V model (also listed as GEN 300-5). Ripple and noise values below are from the TDK-Lambda Genesys model table (5 Hz to 1 MHz RMS; less than 20 MHz peak-to-peak). The TDK-Lambda (Lambda) Genesys GEN300-5 is a programmable DC power supply rated 0 to 300 Vdc and 0 to 5 A (1500 W). Construction is 1U rack. Constant voltage and constant current modes crossover automatically. Built-in RS-232/RS-485 and remote analog program/monitor are standard. Optional LAN (LXI), USB, IEEE-488, and isolated analog interfaces are catalog options. 1.5 kW 1U Genesys 300 V model (also listed as GEN 300-5). Ripple and noise values below are from the TDK-Lambda Genesys model table (5 Hz to 1 MHz RMS; less than 20 MHz peak-to-peak). ATE and burn-in DC rails; magnet, plating, and process DC power; rack programmable sources; OEM substitution of Keysight/Agilent N8700 class Genesys-based supplies where listed.



MODEL

**Lambda / TDK  
GEN300-5**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**GEN300-5**

LISTING

<https://aumictechlabs.com/products/gen300-5-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

### **This unit**

The Lambda GEN300-5 is a solid and reliable 300W AC-DC power supply designed for demanding applications. It accepts a universal input voltage of 85-265VAC and delivers a tightly regulated 5VDC output. Key features include overvoltage, overcurrent, and overtemperature protection, ensuring safe and reliable operation. The power supply is also compliant with international safety standards.

## Features & description

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From manufacturer datasheet

### Features

- Rated output 0 to 300 Vdc, 0 to 5 A, 1500 W

## GEN300 Characteristics / Specifications

| PARAMETER               | VALUE                                                                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                   | GEN300-5                                                                                                                                                                     |
| Manufacturer            | TDK-Lambda (Lambda Electronics)                                                                                                                                              |
| Instrument Type         | Programmable DC Power Supply                                                                                                                                                 |
| Series                  | Genesys                                                                                                                                                                      |
| Alias                   | GEN300-5; GEN 300-5; GEN 300-5                                                                                                                                               |
| Rated Output Voltage    | 0 to 300 Vdc                                                                                                                                                                 |
| Rated Output Current    | 0 to 5 A                                                                                                                                                                     |
| Rated Output Power      | 1500 W                                                                                                                                                                       |
| Voltage Ripple RMS      | 25 mVrms (5 Hz to 1 MHz)                                                                                                                                                     |
| Output Noise PP         | 150 mV p-p (less than 20 MHz)                                                                                                                                                |
| Efficiency              | 83% / 87% (100/200 Vac)                                                                                                                                                      |
| Construction            | 1U rack                                                                                                                                                                      |
| 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) Notes Specs from TDK-Lambda Genesys table (GEN 300-5, 1500 W, 1U rack). Confirm 750 W GEN 300-2.5 isadifferent current rating. |

## 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) Notes Specs from TDK-Lambda Genesys table (GEN 300-5, 1500 W, 1U rack). Confirm 750 W GEN 300-2.5 isadifferent current rating. |

# 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                   | GEN300-5                                                       |
| Manufacturer            | TDK-Lambda (Lambda Electronics)                                |
| Instrument Type         | Programmable DC Power Supply                                   |
| Specifications          |                                                                |
| PARAMETER               | VALUE                                                          |
| Series                  | Genesys                                                        |
| Alias                   | GEN300-5; GEN 300-5; GEN 300-5                                 |
| Rated Output Voltage    | 0 to 300 Vdc                                                   |
| Specifications          |                                                                |
| PARAMETER               | VALUE                                                          |
| Rated Output Current    | 0 to 5 A                                                       |
| Rated Output Power      | 1500 W                                                         |
| Voltage Ripple RMS      | 25 mVrms (5 Hz to 1 MHz)                                       |
| Specifications          |                                                                |
| PARAMETER               | VALUE                                                          |
| Output Noise PP         | 150 mV p-p (less than 20 MHz)                                  |
| Efficiency              | 83% / 87% (100/200 Vac)                                        |
| Construction            | 1U rack                                                        |
| 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   |

Status: production Genesys family (not recommended to invent later GENESYS+ ratings on this file)

Notes

Specs from TDK-Lambda Genesys table (GEN 300-5, 1500 W, 1U rack). Confirm 750 W GEN 300-2.5 is adifferent current rating.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·  
30-day returns  
NAICS 423690 · 811210 · 541380  
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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.