

LAMBDA (TDK-LAMDA)

Genesys (TM) 1500W

The TDK-Lambda Genesys 1500W (1.5kW) series is a family of programmable DC power supplies housed in a high-density 1U form factor. Designed for OEM, industrial, and laboratory environments, these units feature active power factor correction, a continuously variable universal single-phase AC input, and comprehensive protection mechanisms including OVP, UVL, and Foldback. Standard models are equipped with an embedded 16-bit RS-232/RS-485 digital interface and support advanced parallel or series operation.

SPECIFICATIONS

General

Interfaces	RS-232, RS-485 (Standard); IEEE-488.2, Isolated Analog (Optional)
Display	Dual 4-digit LED Voltage and Current meters

Physical

Power Supply	85 - 265 VAC, single phase, 50/60 Hz
Operating Temperature	0 to 50 °C

Output Specifications

Rated Output Power	1500 W
Rated Output Voltage	Up to 600 V (configuration dependent)

AC Input Specifications

Input Voltage Range	85 - 265 VAC (continuously variable, single phase)
Power Factor	0.99 @ full load (Active PFC)

Protection Functions

Over Voltage Protection (OVP)	Adjustable
Under Voltage Limit (UVL)	Adjustable
Foldback Protection	User-selectable (latches output off for safety)
Safe Start	Selectable (returns to previous settings or zero output)
Last Setting Memory	Retains V/I settings, OVP, UVL, Foldback, Mode, Baud Rate, Start Up Mode (without battery)

Analog Programming and Monitoring

Standard Analog Programming	0 - 5 V or 0 - 10 V (user selectable via rear panel DIP switches)
Isolated Analog Programming (Optional)	0 - 5 V & 0 - 10 V, or 4 - 20 mA control

Digital Interface and Programming

Optional Digital Interfaces	IEEE-488.2 (SCPI compliant)
LabView Drivers	Available

Front Panel Display and Controls

Display Type	4-digit LED
Setting Preview	OVP, UVL, and Current Foldback set values can be previewed on display
Additional Front Panel Controls	Output On/Off, Local/Remote selection

Parallel and Series Operation

Master/Slave Parallel Operation	Up to 4 units connected in parallel (with one-wire current share control)
Series Operation	Up to 2 units connected in series
Daisy-Chain Control	Up to 31 power supplies controlled via RS-485

Mechanical Specifications

Rack Mount Size	1U
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Environmental

Cooling	Forced air cooling by internal fans
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Compliance

Safety Standards	UL60950-1, EN60950-1, CE Mark
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TECHNOLOGY

Programmable DC Power Supply

APPLICATIONS

OEM, Industrial, Laboratory, and Test Systems

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.