

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

AMETEK

Ametek SGA500/50 SGA500-50

Ametek DC Power Supplies. Voltage: 0–500 V DC, Current: 0–50 A DC, Voltage: 3-phase.



MODEL

**Ametek
SGA500/50 /
SGA500-50**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

**SGA500/50 /
SGA500-50**

LISTING

<https://aumictechlabs.com/products/sga500-50-sga500-50-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Ametek SGA500/50 is a 25 kW programmable DC power supply engineered for high-demand test, measurement, and production environments. Delivering 0–500 V and 0–50 A across a compact 3U chassis, this unit combines high power density with modular architecture and extensive remote control options. Its fast load transient response, low ripple and noise performance, and stackable design make it suitable for R&D, system integration, and component testing where precise voltage and current control are critical.

Technical Specifications
Output Power: 25 kW rated
Output Voltage: 0–500 V DC
Output Current: 0–50 A DC
Input Voltage: 3-phase, 187–242 VAC
Input Frequency: 47–63 Hz
Power Factor: 0.90 typical
Form Factor: 3U rack mount
Weight: Up to 110 lb (50 kg)

Key Features
Modular Design: Scalable power modules from 5 kW to 30 kW per chassis; core 5 kW module configuration
Parallelability: Units can be paralleled to 150 kW, with system configurations extending to 1.9 MW and 32,500 A
Low Noise Performance: Designed for RMS and peak-to-peak noise minimization in sensitive applications
Fast Transient Response: Protects against voltage excursions during load changes
Stackable Cooling: Front air

intake with forced convection fans; front, side, and rear vents enable stacking without clearance requirements Programmable Sequencing: Support for up to 50 named programs with 20 steps each; custom waveform generation Control & Interface Options Local Control: 10-turn potentiometers for voltage and current; 3½ digit LED display Remote Control: Ethernet (LXI Class C compliant), RS-232C, IEEE-488.2 (GPIB), isolated analog control Hardware Trigger: Available with Ethernet option Relay Control: Output, sense isolation, and polarity relays (Ethernet option) Typical Applications Electronic component testing, equipment calibration, subsystem simulation, and production test environments requiring precise DC power with programmable control and scalable output capacity.

Features & description

From manufacturer datasheet

High power density Genesys platform

Built in RS-232/RS-485 Optional GPIB LAN USB Parallel multi-supply systems up to high kW totals on series CV/CC with advanced programmable features Technical Specifications Output Voltage: 0 to 20 V Output Current: 0 to 50 A Output Power: 1000 W Series Family: TDK-Lambda Genesys Built In Interfaces: RS-232 and RS-485 class Optional Interfaces: GPIB LAN USB class Mode: CV/CC Form Factor: 1U class rack for many 1 kW Genesys models Remote Sense: yes OVP OCP UVP class: yes programmable protections Display: digital front panel AC Input: wide range AC input class on Genesys Parallel Operation: yes multi unit parallel on series Series Operation: supported on series literature for appropriate models Programming: SCPI class digital programming Analog Programming: available on series Output On Off: yes Ripple Class: Genesys low ripple switcher class Cooling: forced air Literature Family Tag: verified OEM row set 20 Literature Family Tag: verified OEM row set 21 Literature Family Tag: verified OEM row set 22 Notes Ratings from TDK-Lambda Genesys 20-50 product literature / Genesys 1U 1 kW family tables.

SGA50050SGA500 Characteristics / Specifications

PARAMETER	VALUE
Output Voltage	0 to 20 V
Output Current	0 to 50 A
Output Power	1000 W
Series Family	TDK-Lambda Genesys
Built In Interfaces	RS-232 and RS-485 class
Mode	CV/CC
Form Factor	1U class rack for many 1 kW Genesys models
Remote Sense	yes
OVP OCP UVP class	yes programmable protections
Display	digital front panel
AC Input	wide range AC input class on Genesys
Parallel Operation	yes multi unit parallel on series
Series Operation	supported on series literature for appropriate models
Programming	SCPI class digital programming
Analog Programming	available on series
Output On Off	yes
Ripple Class	Genesys low ripple switcher class
Cooling	forced air
Literature Family Tag	verified OEM row set 20

SGA50050SGA500 Specifications

PARAMETER	VALUE
Applications	1 kW ATE racks, automotive electronics test, and high current low voltage programmable DC.
High power density Genesys platform	Built in RS-232/RS-485
Optional GPIB LAN USB	Parallel multi-supply systems up to high kW totals on series
Technical Specifications	Output Voltage: 0 to 20 V
Notes	Ratings from TDK-Lambda Genesys 20-50 product literature / Genesys 1U 1 kW family tables.

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	
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Built In Interfaces	RS-232 and RS-485 class
Optional Interfaces: GPIB LAN USB class	
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Notes

Ratings from TDK-Lambda Genesys 20-50 product literature / Genesys 1U 1 kW family tables.

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.