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Data Sheet
August 13, 2026

LAMBDA / TDK

Lambda / TDK / EMI TCR1000S1

Lambda TCR TCR1000S1 High Power DC Supply 1000 V 1 A The Lambda TCR TCR1000S1 isaTCR-series high-power regulated DC supply. The catalog model encodes rated voltage and current: 1000 V and 1 A (1000 W class, V times I). TheSletter isaTCR construction/cooling code (T is the alternate). TCR units are thyristor/phase-control laboratory and systems supplies with constant-voltage and constant-current operation, front-panel metering, and analog remote programming compatible with later EMS/EMHP/ESS programming practices. EMI TCR literature describes bidirectional SCRs in the transformer primary, with the secondary rectified and double L/C filtered. Exact ripple, regulation percent, and AC input belong on the nameplate and TCR instruction manual for that high-voltage frame. The Lambda TCR TCR1000S1 isaTCR-series high-power regulated DC supply. The catalog model encodes rated voltage and current: 1000 V and 1 A (1000 W class, V times I). TheSletter isaTCR construction/cooling code (T is the alternate). TCR units are thyristor/phase-control laboratory and systems supplies with constant-voltage and constant-current operation, front-panel metering, and analog remote programming compatible with later EMS/EMHP/ESS programming practices. EMI TCR literature describes bidirectional SCRs in the transformer primary, with the secondary rectified and double L/C filtered. Exact ripple, regulation pe

MODEL **Lambda / TDK TCR1000S1**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **TCR1000S1**	LISTING **https://aumictechlabs.com/products/tcr1000s1-2/**

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

This unit

The TDK-Lambda TCR1000S1 is a 1000 W DC power supply engineered for applications demanding precision voltage regulation, low noise output, and superior EMI filtering. This unit delivers constant voltage output with load regulation better than 0.1% across 5–100% current change and temperature stability of 0.02%/°C. Soft-start circuitry eliminates magnetic inrush current during power-on.Technical Specifications Input Specifications Standard AC input: 115 VAC, 10 A, 47–63 Hz Operating input voltage range: 105–130 VAC Maximum input current: 16 A Optional AC inputs available: 100 V, 200 V, and 208/220 VAC (additional cost) Alternative input range: 100–240 VAC (50–60 Hz) for safety compliance Output power derating required below 100 VAC input Output Specifications Constant voltage regulation: <0.1% variation for 5–100% load change (50–100% rated output); 100 MΩ at 500 VDC EMI/RFI Performance Internal ferrite toroidal chokes and VDE-listed X and Y capacitors Conducted RFI reduction: up to 1000× versus prior SCR designs Compliance: VDE 875 Level N and VDE 871 Level A Electrical Characteristics High operating efficiency Soft-start power-on control eliminates inrush currentKey Features Precision load regulation across wide input and output ranges Low temperature drift for stable operation in variable thermal environments Compact form factor for space-constrained installations International AC input flexibility via optional configurations High isolation withstand voltages ensure safe operation in sensitive equipmentTypical Applications Laboratory test equipment, industrial control systems, telecommunications infrastructure, medical instrumentation, and demanding industrial environments where EMI filtering and precise voltage delivery are critical.

Features & description

From manufacturer datasheet

Features

- Rated 1000 V, 1 A per TCR model decoder (1000 W class)

TCR1000S1 Characteristics / Specifications

PARAMETER	VALUE
Model	TCR1000S1
Manufacturer	Lambda Electronics (TDK-Lambda / EMI successor path)
Instrument Type	High Power DC Power Supply
Series	TCR
Alias	TCR1000S1; TCR 1000S1; Lambda TCR1000S1; EMI TCR1000S1
Rated Output Voltage	1000 Vdc
Rated Output Current	1 A
Rated Power Class	1000 W class (VxI)
Output Mode	constant voltage / constant current automatic crossover
Topology	phase-controlled / thyristor TCR family
SCR Arrangement	bidirectional SCRs in the transformer primary (EMI TCR literature)
Output Filter	secondary rectified and double L/C filtered DC
Metering	front-panel voltage and current meters
Remote Program	analog resistance, voltage, or current (TCR/EMS/EMHP common program class)
Protection	overcurrent and overvoltage provisions per TCR manual for the high-voltage frame
Cooling	forced air
Form	rack or cabinet TCR high-voltage frame
Programming Compatibility Note	EMS/EMHP/ESS literature cites common analog programming with TCR
AC Input	confirm single-phase vs three-phase and 208/230/460 Vac on the nameplate (high-voltage TCR frames vary)
Regulation	published on the specific TCR instruction sheet for the frame; do not assume EMHP 0.1% unless that sheet is attached
Family Decoder	TCR plus voltage plus letter plus current (this unit TCR1000S1 = 1000 V, 1 A)
Letter Code	S is the construction/cooling code on this model string

PARAMETER	VALUE
Duty	continuous laboratory/systems DC source
Connections	high-voltage DC output terminals per TCR high-voltage frame
Sense Compare	outputVandIsensed against internal references or externally applied control levels
Documentation	TDK-Lambda legacy TCR PDF / EMI TCR instruction sheet
Neighbor Example	TCR1200T4 is a 1200 V / 4 A TCR row, not this 1000 V / 1 A rating Notes Verified identity is Lambda/EMI TCR TCR1000S1 at 1000 V / 1 A from the TCR model decoder. Ripple, regulation %, and AC input amperes are frame-specific; read the TCR manual and nameplate. Do not invent precision.

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	TCR1000S1
Manufacturer	Lambda Electronics (TDK-Lambda / EMI successor path)
Instrument Type	High Power DC Power Supply

Specifications

PARAMETER	VALUE
Series	TCR
Alias	TCR1000S1; TCR 1000S1; Lambda TCR1000S1; EMI TCR1000S1
Rated Output Voltage	1000 Vdc

Specifications

PARAMETER	VALUE
Rated Output Current	1 A
Rated Power Class	1000 W class (VxI)
Output Mode	constant voltage / constant current automatic crossover

Specifications

PARAMETER	VALUE
Topology	phase-controlled / thyristor TCR family
SCR Arrangement	bidirectional SCRs in the transformer primary (EMI TCR literature)
Output Filter	secondary rectified and double L/C filtered DC

Specifications

PARAMETER	VALUE
Metering	front-panel voltage and current meters
Remote Program	analog resistance, voltage, or current (TCR/EMS/EMHP common program class)

PARAMETER	VALUE
Protection	overcurrent and overvoltage provisions per TCR manual for the high-voltage frame

Specifications

PARAMETER	VALUE
Cooling	forced air
Form	rack or cabinet TCR high-voltage frame
Programming Compatibility Note	EMS/EMHP/ESS literature cites common analog programming with TCR

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PARAMETER	VALUE
AC Input	confirm single-phase vs three-phase and 208/230/460 Vac on the nameplate (high-voltage TCR frames vary)
Regulation	published on the specific TCR instruction sheet for the frame; do not assume EMHP 0.1% unless that sheet is attached
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Specifications

PARAMETER	VALUE
Letter Code	S is the construction/cooling code on this model string
Duty	continuous laboratory/systems DC source
Connections	high-voltage DC output terminals per TCR high-voltage frame

Specifications

PARAMETER	VALUE
Sense Compare	outputVandIsensed against internal references or externally applied control levels
Documentation	TDK-Lambda legacy TCR PDF / EMI TCR instruction sheet
Neighbor Example	TCR1200T4 is a 1200 V / 4 A TCR row, not this 1000 V / 1 A rating

Notes

Verified identity is Lambda/EMI TCR TCR1000S1 at 1000 V / 1 A from the TCR model decoder. Ripple, regulation %, and AC input amperes are frame-specific; read the TCR manual and nameplate. Do not invent precision.

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

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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.