

**Aumictech**

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Data Sheet

August 13, 2026

LAMBDA / TDK

Lambda / TDK / EMI TCR

The Lambda/TKD EMI TCR is a series of DC power supplies engineered with integrated RFI/EMI filtering to suppress electromagnetic interference in demanding applications. Internal ferrite toroidal chokes and VDE-listed "X" and "Y" capacitors deliver compliance with VDE 875 Level N and VDE 871 Level A standards. The TCR series combines constant voltage and constant current regulation with automatic crossover, high power density, and common programming architecture across multiple TDK-Lambda platforms. Typical Applications The TCR series serves industrial and laboratory environments where EMI suppression and precise DC output regulation are critical. Fan cooling and horizontal ducting make these units suitable for rack-mount configurations. Compatibility & Integration Common programming interfaces enable integration across multiple TDK-Lambda power supply series within the same system arch



MODEL

Lambda / TDK EMI TCR

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

EMI TCR

LISTING

<https://aumictechlabs.com/products/emi-tcr-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

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across multiple TDK-Lambda platforms. Technical Specifications Output Regulation Constant Voltage Mode: <0.1% variation of set point for 5–100% load change (50–100% output voltage); <0.05% variation of maximum output below 50% output voltage Constant Current Mode: <0.1% variation of set point for 5–100% voltage change (50–100% output current); <0.05% variation of maximum output below 50% output current Temperature Stability Output Voltage Set Point: 0.02%/°C of maximum output voltage rating Output Current Set Point: 0.03%/°C of maximum output current rating AC Input Specifications 600W, 1000W, 1800W models: 115 VAC, 47–63 Hz (functional range 105–130 V) 2800W models: 208/220 VAC (190–253 V) Optional inputs available: 100 V, 200 V, 208/220 VAC Soft-start circuit controls SCR phase-in to eliminate magnetic inrush current Output Ripple Voltage TCR 600S4.5 2 model: 750 mV Thermal Performance Operating Temperature: 0°C to 40°C continuous duty Storage Temperature: -40°C to +85°C Fan-cooled with horizontal air ducting to prevent thermal coupling between adjacent units Dielectric Withstand Primary to secondary and chassis: 2500 V rms Key Features Integrated RFI filter with ferrite toroidal chokes and VDE-listed capacitors High power-per-cubic-inch density Automatic CV/CC crossover with stable regulation across load and line variations Soft-start input management Covered input, output, and programming terminals for operator protection Master/slave operation capability High operating efficiency Typical Applications The TCR series serves industrial and laboratory environments where EMI suppression and precise DC output regulation are critical. Fan cooling and horizontal ducting make these units suitable for rack-mount configurations. Compatibility & Integration Common programming interfaces enable integration across multiple TDK-Lambda power supply series within the same system architecture.

Features & description

From manufacturer datasheet

Features

- EMI TCR SCR phase-control family (Lambda/TDK successor path)

EMITCR Characteristics / Specifications

PARAMETER	VALUE
Model	EMI TCR
Manufacturer	Electronic Measurements Inc. / Lambda EMI / TDK-Lambda
Instrument Type	High Power SCR DC Power Supply Family
Series	TCR
Alias	EMI TCR; Lambda TCR; TDK-Lambda TCR
Family Decoder	TCR plus voltage plus letter plus current
Letter Code	T andSare TCR construction/cooling codes; confirm on the nameplate
Example TCR10T2	10 V, 250 A, 2500 W class
Example TCR20T2	20 V, 250 A, 5000 W class
Example TCR100T1	100 V, 100 A, 10000 W class
Example TCR1000S	1000 V, 1 A, 1000 W class
Example TCR1200T	1200 V, 4 A, 4800 W class
Output Mode	constant voltage / constant current automatic crossover
Topology	SCR phase control on transformer primary; 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 frame
Cooling	forced air
Form	rack or cabinet TCR high-power frame (size is current-dependent)
AC Input	high-current TCR frames typically three-phase 208/230/460 Vac class; confirm on the nameplate
Regulation	published on the specific TCR instruction sheet; do not assume EMHP 0.1% unless that sheet is attached
Programming Compatibility Note	EMS/EMHP/ESS literature cites common analog programming with TCR
Duty	continuous laboratory/systems DC source

PARAMETER	VALUE
Connections	high-current or high-voltage DC output bus or lugs per frame
Sense Compare	outputVandIsensed against internal or external control levels
Documentation	TDK-Lambda legacy TCR PDF (EMI_TCR)
Status	legacy; notaGenesys or EMHP cabinet listing
Faceplate Rule	rated volts and amperes must be read from the installed TCR model string Notes EMI TCR isafamily listing. Use the TCR decoder for V/I on the nameplate. Do not inventacurrent or ripple for an unread faceplate. Verified examples include TCR10T250, TCR20T250, TCR100T100, TCR1000S1, and TCR1200T4.
Model decoder	voltage plusTorSplus current

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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PARAMETER	VALUE
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Specifications	
PARAMETER	VALUE
Example TCR100T100	100 V, 100 A, 10000 W class
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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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.