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Data Sheet

August 13, 2026

LAMBDA / TDK

Lambda / TDK / EMI TCR10T250

Lambda TCR TCR10T250 High Power DC Supply 10 V 250 A The Lambda TCR TCR10T250 isaTCR-series high-power regulated DC supply. The catalog model encodes rated voltage and current: 10 V and 250 A (2500 W class (VxI)). 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. Exact ripple, regulation percent, and AC input (typically 208/230/460 Vac three-phase on high-current frames) belong on the nameplate and TCR instruction manual for that frame size. The Lambda TCR TCR10T250 isaTCR-series high-power regulated DC supply. The catalog model encodes rated voltage and current: 10 V and 250 A (2500 W class (VxI)). 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. Exact ripple, regulation percent, and AC input (typically 208/230/460 Vac three-phase on high-current frames) belong on the nameplate and TCR instruction manual for that frame size. High-current magnet, plating, and burn-in DC; systems racks needing TCR-format analog program; MRO replacement of Lambda TCR frames.



MODEL

**Lambda / TDK
TCR10T250**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

TCR10T250

LISTING

<https://aumictechlabs.com/products/tcr10t250-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Lambda / TDK EMI TCR10T250 is a single-stage EMC/EMI filter for AC and DC power lines, delivering common mode and differential mode noise attenuation across broad frequency spectra. Rated at 250 VAC / 250 VDC and 10 A, this filter integrates high-quality capacitors and inductors to meet demanding electromagnetic compatibility requirements in industrial, medical, and telecommunications applications where EMI mitigation is critical.

Technical Specifications

Filter Type: Single-stage EMC/EMI **Voltage Rating:** 250 VAC / 250 VDC **Current Rating:** 10 A **Circuit Configuration:** Common mode and differential mode noise attenuation **Internal Components:** High-quality capacitors and inductors **Housing:** Durable, non-conductive casing **Terminals:** Screw terminals or fast-on connectors for AC/DC power line integration **Environmental:** Suitable for standard industrial humidity and temperature conditions

Key Features

- Dual-mode filtration architecture suppresses both common and differential noise sources
- Screw or fast-on terminal options enable flexible power line integration
- Non-conductive enclosure ensures safe equipment integration
- Designed for chassis or internal equipment mounting

Typical Applications

- Industrial power supplies, control systems, and machinery
- Medical devices requiring stringent EMC compliance
- Telecommunications infrastructure (routers, switches, base stations)
- AC/DC power input protection in general electronics

Compatibility & Integration

The TCR10T250 accommodates both AC and DC power architectures at 250 V and 10 A. Mounting provisions support chassis integration and enclosure-based deployment. Terminal configuration options allow direct connection to existing power distribution infrastructure.

Features & description

From manufacturer datasheet

Features

- Rated 10 V, 250 A per TCR model decoder

TCR10T250 Characteristics / Specifications

PARAMETER	VALUE
Model	TCR10T250
Manufacturer	Lambda Electronics (TDK-Lambda / EMI successor path)
Instrument Type	High Power DC Power Supply
Series	TCR
Alias	TCR10T250; Lambda TCR10T250
Rated Output Voltage	10 Vdc
Rated Output Current	250 A
Rated Power Class	2500 W class (VxI)
Output Mode	constant voltage / constant current automatic crossover
Topology	phase-controlled / thyristor TCR family
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)
Programming Compatibility Note	EMS/EMHP/ESS literature cites common analog programming with TCR
AC Input	high-current TCR frames typically three-phase; confirm 208/230/460 Vac on the nameplate
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 (example TCR10T250 = 10 V, 250 A)
Letter Code	T andSare TCR construction/cooling codes on the model string; confirm on the nameplate
Duty	continuous laboratory/systems DC source
Connections	high-current DC output bus or lugs on the rear/front per frame Notes Verified identity is Lambda TCR TCR10T250 at 10 V / 250 A from the TCR model decoder used across Lambda/EMI high-power catalogs.

PARAMETER

VALUE

Ripple, regulation %, and AC input amperes are frame-specific; read the TCR manual and nameplate. Do not invent precision.

TCR10T250 Specifications

PARAMETER	VALUE
Lambda TCR TCR10T250 High Power DC Supply 10 V 250 A	Overview
Key Features	- Rated 10 V, 250 A per TCR model decoder
Technical Specifications	Model: TCR10T250

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.

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Notes

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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 ·
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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.