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Data Sheet

August 13, 2026

LAMBDA / TDK

Lambda / TDK / EMI TCR10S90

Lambda TCR TCR10S90 High Power DC Supply 10 V 90 A The Lambda TCR TCR10S90 isaTCR-series high-power regulated DC supply. The catalog model encodes rated voltage and current: 10 V and 90 A (900 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 TCR10S90 isaTCR-series high-power regulated DC supply. The catalog model encodes rated voltage and current: 10 V and 90 A (900 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
TCR10S90****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****TCR10S90****LISTING**<https://aumictechlabs.com/products/tcr10s90-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The TDK/Lambda TCR10S90 is a multilayer ceramic capacitor designed for EMI filtering and noise suppression in electronic systems. This radial lead component provides effective electromagnetic interference mitigation while maintaining high reliability across demanding operating conditions. The capacitor features Class 1 or Class 2 dielectric options with stable performance over temperature and voltage stress, making it suitable for power conversion, industrial control, and signal conditioning applications requiring proven noise rejection.

Technical Specifications

Capacitance & Tolerance Capacitance specifications vary by class and rated value. Class 1 capacitors maintain drift within $\pm 0.2\%$ or ± 0.05 pF (whichever is larger) with temperature coefficient calculated between 25°C and 85°C reference points. Class 2 tolerances and measurement conditions depend on rated capacitance threshold (10 μ F and under versus over 10 μ F). Electrical Performance

Insulation resistance meets minimum 10,000 M Ω or 500 M Ω · μ F specifications when tested at rated voltage or 500 V DC for 60 seconds. Withstand voltage testing applies 2.5× rated voltage (for 100 V and under) or 1.5× (over 100 V) for 1–5 seconds without breakdown. Charge/discharge current is limited to 50 mA maximum. Dissipation factor and Q factor specifications are provided per measurement conditions in applicable standards.

Operating & Storage Class 1 dielectrics (X7R/X7S/X7T types) operate across –55°C to 125°C. Storage conditions are 5–40°C at 20–70% relative humidity with recommended term within 6 months of receipt. Reflow and lead termination soldering parameters are specified for manufacturing integration. Environmental Durability

Component withstands vibration testing (10–55–10 Hz, 1.5 mm amplitude for 2 hours) and temperature cycling. Moisture resistance is validated under defined temperature, humidity, and applied voltage stress. Solvent resistance is confirmed for PCB processing compatibility.

Key Features Multilayer ceramic construction with radial leads Internal electrode materials optimized for stability Soft termination types available for enhanced mechanical reliability Temperature-stable dielectric options (Class 1 and Class 2) High insulation resistance maintained across temperature range

Typical Applications Power supply filtering, EMI suppression networks, signal conditioning circuits, and industrial control systems requiring noise rejection and voltage stress tolerance.

Compatibility & Integration Standard radial lead termination supports PCB soldering via reflow or wave processes. Mechanical and electrical specifications align with established ceramic capacitor standards for drop-in integration.

Features & description

From manufacturer datasheet

Features

- Rated 10 V, 90 A per TCR model decoder

TCR10S90 Characteristics / Specifications

PARAMETER	VALUE
Model	TCR10S90
Manufacturer	Lambda Electronics (TDK-Lambda / EMI successor path)
Instrument Type	High Power DC Power Supply
Series	TCR
Alias	TCR10S90; Lambda TCR10S90
Rated Output Voltage	10 Vdc
Rated Output Current	90 A
Rated Power Class	900 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 TCR10S90 at 10 V / 90 A from the TCR model decoder used across Lambda/EMI high-power catalogs. Ripple,

PARAMETER

VALUE

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

TCR10S90 Specifications

PARAMETER	VALUE
Lambda TCR TCR10S90 High Power DC Supply 10 V 90 A	Overview
Key Features	- Rated 10 V, 90 A per TCR model decoder
Technical Specifications	Model: TCR10S90

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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Connections: high-current DC output bus or lugs on the rear/front per frame

Notes

Verified identity is Lambda TCR TCR10S90 at 10 V / 90 A from the TCR model decoder used across Lambda/EMI high-power catalogs. 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

Aumictech

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<https://aumictechlabs.com>

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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.