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Data Sheet

August 13, 2026

LAMBDA / TDK / EMI

Lambda / TDK / EMI TCR100T100

Lambda TCR TCR100T100 High Power DC Supply 100 V 100 A The Lambda TCR TCR100T100 isaTCR-series high-power regulated DC supply. The catalog model encodes rated voltage and current: 100 V and 100 A (10000 W class (Vxl)). 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 TCR100T100 isaTCR-series high-power regulated DC supply. The catalog model encodes rated voltage and current: 100 V and 100 A (10000 W class (Vxl)). 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 /
EMI TCR100T100****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****TCR100T100****LISTING**<https://aumictechlabs.com/products/tcr100t100-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Lambda/TDK/EMI TCR100T100 is a three-phase AC-to-DC power supply component engineered for precision voltage and current delivery in industrial and commercial applications. It combines soft-start input protection, phase-loss detection, and programmable remote control to enable reliable operation across demanding environments. The unit integrates RFI filtering and remote sensing compensation to maintain tight output regulation at the point of load.

Technical Specifications

Input Standard AC input: 208–220 V, 3Ø, 47–63 Hz Operating range: 190–253 V
Optional AC inputs: 200 V, 380 V, 415 V, 440–460–480 V (414–505 V) at additional cost

AC inrush: Soft-started to suppress inrush current

Phase loss: Output inhibited on phase loss; automatic resumption upon phase restoration

Output Regulation Load effects: $\leq 0.1\%$ output voltage variation across 5–100% load change (50–100% of rated maximum); $\leq 0.05\%$ of maximum output for loads below 50%

Voltage temperature coefficient: 0.02%/°C of maximum output voltage rating

Current temperature coefficient: 0.03%/°C of maximum output current rating

Environmental Operating temperature: 0 °C to 40 °C continuous duty Storage temperature: –40 °C to +85 °C Cooling: Fan-cooled with horizontal air ducting

EMC & Safety RFI filter: Internal, with ferrite toroidal chokes and VDE-listed capacitors

Dielectric withstand: 2500 V rms (primary to secondary and chassis)

Control & Programming Remote sensing: Compensates for distribution voltage drops

Remote start/stop/interlock: External AC/DC voltage or interlock closure control

Local or remote programming via resistance (5000 Ω), voltage (5 V), or current (1 mA) for voltage output; resistance (100 Ω), voltage (100 mV), or current (1 mA) for current output

Key Features Soft-start SCR protection eliminates input inrush transients

Phase-loss detection with status indication and automatic recovery

Internal RFI filtering reduces line-conducted EMI

Terminal covers provide operator safety

Series or parallel master/slave operation

Compatible with other TDK-Lambda series for unified programming

Typical Applications Industrial control systems, commercial power distribution, test and measurement environments, and equipment requiring stable regulated power with remote programmability.

Compatibility & Integration Common programming interface supports integration with other TDK-Lambda power supply series. Remote control via standard voltage, current, or resistance signals enables seamless integration into distributed control architectures.

Features & description

From manufacturer datasheet

Features

- Rated 100 V, 100 A per TCR model decoder

TCR100T100 Characteristics / Specifications

PARAMETER	VALUE
Model	TCR100T100
Manufacturer	Lambda Electronics (TDK-Lambda / EMI successor path)
Instrument Type	High Power DC Power Supply
Series	TCR
Alias	TCR100T100; Lambda TCR100T100
Rated Output Voltage	100 Vdc
Rated Output Current	100 A
Rated Power Class	10000 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 and S are 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 TCR100T100 at 100 V / 100 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.

TCR100T100 Specifications

PARAMETER	VALUE
Lambda TCR TCR100T100 High Power DC Supply 100 V 100 A	Overview
Key Features	- Rated 100 V, 100 A per TCR model decoder
Technical Specifications	Model: TCR100T100

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.