

TEKTRONIX

TM502A

The Tektronix TM502A is a compact, 2-slot power module mainframe designed to house and power Tektronix TM500 series plug-in test and measurement instruments. It features a convection-cooled chassis and rear-panel series-pass transistors to dissipate heat outside of the individual instrument modules.

SPECIFICATIONS

General

Interfaces	Rear-panel 36-pin card-edge connectors (18-pin double-sided) with solder-pad access
Display	None (Power-on LED indicator only)

Physical

Power Supply	100V / 115V / 120V / 200V / 230V / 240V AC, 48 Hz to 440 Hz
Operating Temperature	0°C to +50°C °C
Dimensions (W×H×D)	152 mm × 152 mm × 389 mm mm
Weight	3.4 kg
Tilt Bail	Integrated flip-down feet for benchtop tilt adjustment

System Architecture & Capacity

Number of Module Slots	2
Compatible Module Series	Tektronix TM 500

Power Specifications

Power Input Options	100V, 115V, 120V, 200V, 230V, 240V AC
AC Line Frequency Range	48 Hz to 440 Hz
Supplied DC Voltages (Unregulated)	+11.5 V, -11.5 V, +33.5 V, -33.5 V
Supplied AC Voltages	25 VAC
Rear Heatsink Transistors	2 NPN and 2 PNP power transistors (one NPN/PNP pair per slot)

Physical Characteristics

Cooling System	Natural convection (quiet, fanless operation)
Carrying Handle	Top-mounted, integrated strap handle

Environmental & Compliance

Storage Temperature Range	-40°C to +75°C
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Power

Power Consumption	140 W maximum
Line Fuse	1.6 A slow-blow (100/110/120 VAC) or 0.8 A slow-blow (200/220/240 VAC)

Environmental

Operating Altitude	Up to 4,570 m (15,000 ft)
Storage Altitude	Up to 15,240 m (50,000 ft)
Operating Humidity	90% to 95% RH
Vibration (Operating)	0.38 mm (0.015 inches) p-p, 10 Hz to 55 Hz, 15 minutes per axis
Shock (Non-operating)	30 g (half-sine, 11 ms duration, 3 shocks per axis)

Options

Option 2 Rear Interface	Provides rear-panel access to the 36-pin mainframe backplane connectors
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Backplane

Slot Connector Type	36-contact (18-pin double-sided) edge connector
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Connectivity

Rear Chassis Ground	Rear-panel binding post
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Power Supply

Line Voltage Selection Ranges	90-110 V / 104-126 V / 112-136 V / 180-220 V / 208-252 V / 224-272 V AC (switch-selectable)
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Compliance

Standards & Certifications	Designed to meet UL 1244 and CSA C22.2 No. 101
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TECHNOLOGY

Modular Test & Measurement System

APPLICATIONS

Power mainframe for Tektronix TM500 plug-in modules

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