

Majortel™ DC-DC Converter System

Majortel 130 to 48 Volt



- » User Selectable Output Voltage
- » Extended Temperature Operations; Up to 75°C
- » Programmable Alarms with Dry-Contacts
- » Integrated Remote Communication Package
- » Easy, Manageable Monitor Screen
- » Quick Check LED Indications

The Majortel 1U Converter System is a sleek, compact design that is ideal for applications requiring 48V DC Power from a 130V DC Power source. Each system is designed to occupy a true 1U (1.75" tall) rack space in a standard 19" wide rack and under 11" deep. Typical installations include two compact, high density and reliable high frequency 25 amp converters, for a total system capacity configuration of 2900W at 58V maximum output.

The MTD48/XX*130-1U system includes a simple Load 1 and Load 2 breaker distribution to support multiple isolated output circuit configurations and the MTS-Com centralized man-to-machine interface. The system power capacity is user configurable for 25A and 50A applications.

*(XX=25 or XX=50)

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Base Model/Parameter

DC Output Range	42-58 VDC
Max System Output Current (@ Full Load)	50 Amps; 2900W
System: MTD48/25-130-1U MTD48/50-130-1U	Converter: 1 = 25A; 1450W 2 = 50A; 2900W
DC Circuit Breakers (Output)	Load 1; 50A Load 2; 50A
Type of System Chassis	1U; Rackmount 19"
System Chassis	19" W x 10.38" D x 1.74" H 443mm x 263.7mm x 44.3mm
Weight-Chassis Only	13.2 lbs.; 6kg
Weight-Max with Converters	20.2 lbs.; 9.2kg
Controller	MTS-Com with Communication Interface
DC Connection Type	2 Wire Terminal
Converter Module	MTDC48/25-1U

Converter Module:

Parameter	MTDC48/25-1U
DC Input Voltage	100-300 DC
Efficiency	92%
Source Current (Full Load)	17 Amps per module
Soft Start Time	< 8 Sec
DC Output Range- Adjustable	42-58
DC Rated Output	1450Watts@ 58V (25A)
Overload Protection; Current Limit	105%
Over Voltage Protection	59 V
Ripple	<200 mV Peak to Peak; 70mV RMS
Regulation Accuracy	+/- 0.5%
Load Sharing	Automatic +/- 5%
Efficiency Performance	92%
Front Panel Indicators	3 LED Status
MTBF	>253,000 Hr.
Weight-Single Module	2.9 lbs.; 1.3kg
Dimensions	4.25"W x 9.13"D x 1.63"H 108mm x 232mm x 41.5mm

Ordering:

Assembly Number	Description
MTD48/25-130-1U	1450W (25A) capacity with 2 load breaker set
MTD48/50-130-1U	2900W (50A) capacity with 2 load breaker set