



- » 24V or 48V DC Output
- » Wide DC Input Range with 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 24V or 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 50A output in the single selected voltage for the application.

The converter system includes a simple Load 1 and Load 2 breaker distribution to support multiple output feed configurations and the MTS-Com centralized man-to-machine interface. The system power capacity is user configurable for 25A or 50A applications.

SYSTEM:

Base Model/Parameter	130VDC to 24VDC	130VDC to 48VDC
DC Output Range	21-29 VDC	42-58 VDC
Max System Output Current (@ Full Load)	50 Amps; 1600W	50 Amps; 2900W
System		
MTD24/25-130-1U	1=25A; 800W	
MTD24/50-130-1U	2=50A, 1600W	
MTD48/25-130-1U		1=25A. 1450W
MTD48/50-130-1U		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 Rectifiers	20.2 lbs.; 9.2kg	
Controller	MTS-Com with Communication Interface	
AC Connection Type	2 Wire Terminal	
Rectifier	MTDC24/25-1U	MTDC48/25-1U

Converter Module

Base Model/Parameter	MTDC24/25-1U	MTDC48/25-1U
DC Input Voltage	85-150 DC	100-300 DC
Efficiency	89%	92%
DC Rated Current (Full Load)	9 Amps	17 Amps
Soft Start Time	< 8 Sec	
DC Output Range-Adjustable	21-27	42-58
DC Rated Output	800W@ 29V (25A)	1450W@ 58V (25A)
Overload Protection	105%	
Over Voltage Protection	29.5 V	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 Rectifier	2.9 lbs; 1.3 kg	
Dimensions	4.25" W x 9.13" D x 1.63" H 108mm x 232mm x 41.55mm	