

Majortel DC Power System



- Complete System Design
- Extended Temperature Operations; Up to 75°C
- Programmable Alarms across 4 sets of Dry-Contacts
- Integrated Remote Communication Package
- Easy, Manageable Monitor Screen
- Quick Check LED Indications

The Majortel 2U System is a fully integrated, compact design that is ideal for applications requiring DC power and distribution. The system is designed to occupy a true 2U (3.5" tall) rack space in a standard 19" wide rack and under 11.5" deep. Typical installations include 2-4 compact, high density and reliable switch-mode rectifiers. The flexible system can support multiple size power applications using 25A rectifier modules.

The total system capacity configurations are 2900W to 5800W. The MTS 2U system includes a dual load and battery breaker set-up for bulk feed configuration and 4 additional field configurable load breaker positions.

Select a bundled system package that includes everything needed for a standard installation.

SYSTEM:

Base Model/Parameter	MTS48/50AT-2U	MTS48/75AT-2U	MTS48/100AT-2U
DC Output Range	42-58 VDC		
Max System Output Current (@ Full Load)	50 Amps; 2900W	75 Amps; 4350W	100 Amps; 5800W
Switch-Mode Rectifier(s)	2	3	4
DC Circuit Breakers (Integrated)	1-Batt; 2-Load; 100A Each		
DC Circuit Breakers (User Selectable)	4 Positions; 1-30A Each		
Type of System Chassis	2U; Rackmount 19"		
System Chassis	19" W x 11.08" D x 3.47" H 482.6mm x 281.5mm x 88.1mm		
Weight-Chassis Only	22lbs.; 10kg		
Weight-Max with Rectifiers	27.8 lbs.; 12.6kg	30.7lbs.; 13.9kg	33.6lbs.; 15.2kg
Controller	MTS-Com with Communication Interface		
Low Voltage Disconnect	Integrated; Battery		
AC Connection Type	(2) 3-Wire Terminals		
Rectifier	MTR48/25-1U		

ENVIRONMENTAL

Working Environment	Rating
Ambient Temperature	-40° to 75° Celsius
Storage Temperature	-40° to 85° Celsius
Relative Humidity	0-95% Non-Condensing
Altitude	0-2000m
Cooling	Forced Air; Variable Speed Control
Noise, Acoustic	< 55dB
Noise, Broadband	<5mV, rms
EMC	EN55022
Surge	EN61000-4-5,6KV/2ohm

ORDER:

Part Number	Description
MTS48/50AT-2U	Dual load and battery breaker set-up for bulk feed configuration and 4 additional field configurable load breaker positions; 50A, 2900W capacity
MTS48/75AT-2U	Dual load and battery breaker set-up for bulk feed configuration and 4 additional field configurable load breaker positions; 75A, 4350W capacity
MTS48/100AT-2U	Dual load and battery breaker set-up for bulk feed configuration and 4 additional field configurable load breaker positions; 100A, 5800W capacity
MTS-23B-1U	23" Extended Bracket

RECTIFIER:

Parameter	MTR48/25-1U
AC Input Voltage-Standard	208/240 VAC
AC Input Voltage- Full Range	90-290 VAC; No De-Rating
AC Input Frequency- Range	45-65 Hz
Power Factor	>0.99
THD	<5%
Efficiency	92%
AC Rated Current (Full Load)	6.7 Amps
AC Inrush Current	Does not exceed 150% of the rated input steady state peak value.
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)
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.; 1.3kg
Dimensions	4.25"W x 9.13"D x 1.63"H 108mm x 232mm x 41.5mm

