

# Majortel™ DC Power System

## MTS48/30BL-1U



- Wide AC Range; Full Power with 120 VAC or 240 VAC
- Extended Temperature Operations; Up to 75°C
- Programmable Alarms on Dry-Contacts
- Integrated Remote Communication Package
- Easy, Manageable Monitor Screen
- Quick Check LED Indications
- Temperature Compensation Probe included

The Majortel 1U System is a sleek, compact design that is ideal for applications requiring DC Power. 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 switch-mode rectifiers, each 15 amps for a total system capacity configuration of 1740W.

The MTS48/30BL-1U is designed with a field configurable distribution bay. System installation is made simple with the convenience of standard NEMA line cord AC source connections.

# MTS48/30BL-1U

## System Chassis Parameter

DC Output Range	42-58 VDC
Max System Output Current (@ Full Load)	30 Amps; 1740W
Switch-Mode Rectifiers	2
“Distribution” DC Circuit Breaker Bay	Slots: 1 Battery/ 4 Loads Purchase Circuit Breakers per Application
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
Temperature Compensation Probe	6’ (1.8m) Length
Low Voltage Disconnect	Integrated; Battery
AC Connection Type	IEC-320 (C14 x 2)
Rectifier	MTR48/15-1U-v13A

## RECTIFIER:

Parameter	MTR48/15-1U-v13A
AC Input Voltage-Standard	120/208/240 VAC, 1Ø
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)	7.8 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	870 Watts (15A)
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%
Front Panel Indicators	3 LED Status
MTBF	>100,000 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

# MTS48/30BL-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



Backplane View

## ORDERING:

Part Number	Description
MTS48/30BL-1U	Field configurable circuit breaker positions (5), Select at Purchase. Standard 6ft NEMA line cords for AC source connections, 1740W total system capacity
MTS-23B-1U	23" Extended Bracket for 19" system shelf
ST-B01A	1 amp Circuit Breaker rating, spade style plug-in with alarm
ST-B05A	5 amp Circuit Breaker rating, spade style plug-in with alarm
ST-B10A	10 amp Circuit Breaker rating, spade style plug-in with alarm
ST-B15A	15 amp Circuit Breaker rating, spade style plug-in with alarm
ST-B20A	20 amp Circuit Breaker rating, spade style plug-in with alarm
ST-B30A*	30 amp Circuit Breaker rating, spade style plug-in with alarm

\* recommended for battery and maximum load output