



MTS48/30BL-1U

- » Wide AC Range; Full Power with 120/208/240VAC
- » Extended Temperature Operations; Up to 75°C
- » Programmable Alarms on Dry-Contacts

- » Integrated Remote Communication Package
- » Easy, Manageable Monitor Screen
- » Quick Check LED Indications



MTS48/30FL-1U

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. Individual load bay slots are ready for field configuration by choosing 5a, 10a, 15a, 20a or 30a rated circuit breakers. The system can support A/B enterprise server power requirements with or without back-up. Installation is made simple with the convenience of standard NEMA line cord AC source connections.

The MTS48/30FL-1U is designed with 10 GMT fuse slots and one 30A circuit breaker for battery connected applications. Installation is made simple with the convenience of standard NEMA line cord AC source connections.

SYSTEM:

| Base Model/Parameter | MTS48/30BL-1U | MTS48/30FL-1U |
|--|--|---|
| DC Output Range | 42-58 VDC | |
| Max System Output Current (@ Full Load) | 30 Amps; 1740W | |
| Switch-Mode Rectifiers | 2 | |
| Distribution | Batt Slot for 30A max rating; Load slots for 4 user-selected breakers | 1-Batt @ 30A fixed Load sockets for 10 user-selectable (fuse max 15A) |
| 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 | |
| Low Voltage Disconnect | Integrated; Battery | |
| AC Connection Type | IEC-320; 6ft NEMA to IEC cord included | |
| Rectifier | MTR48/15-1U | |

RECTIFIER Module:

| Parameter | MTR48/15-1U-v13A |
|------------------------------------|--|
| AC Input Voltage-Standard | 120/208/240 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 | 90% |
| AC Rated Current (Full Load) | 10.5 Amps Max |
| 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 | 120%; 18A |
| 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 | 2.2 lbs.; 1 kg |
| Dimensions | 3.35"W x 9.13"D x 1.60"H 85mm x 224mm x 40.5mm |

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 |

MTS48/30BL-1U



Backplane Views

MTS48/30FL-1U



ORDERING:

| Part Number | Description |
|------------------|--|
| MTS48/30FL-1U | 10 GMT fuse slots and one 30A circuit breaker for battery Standard 6 ft NEMA line cord AC source connections 1740W total system capacity |
| Fuse Kit | 10 pack |
| MTS-23B-1U | 23" Extended Bracket for either system |
| MTS48/30BL-1U | Field configurable circuit breaker positions. Standard 6 ft NEMA line cord AC source connections 1740W total system capacity |
| Circuit Breaker: | User Purchased Individually |
| ST-B01A | Rating 1 Amp |
| ST-B05A | Rating 5 Amp |
| ST-B10A | Rating 10 Amp |
| ST-B15A | Rating 15 Amp |
| ST-B20A | Rating 20 Amp |
| ST-B30A | Rating 30 Amp |