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Find the *TDI Power / Transistor Devices SPS5363-1* at our website: *Click HERE*

TDI
Transistor Devices

1000W MP Series Power Supplies

For Telecom, Computer & Industrial Applications



Features

- **24Vdc or 48Vdc Output**
- **World-Wide (90-264VAC) Input Range**
- **Power Factor Correction**
- **Alarm Signals**
- **UL, CSA, VDE Approvals Plus CE Mark (LVD)**
- **Hot Bus Plug-In**
- **N+1 Redundant Operation**
- **3U Height, Fits Four Units Across 19" Shelf**
- **Status LED's**

Product Overview

The MP1000 power module and system is ideal for distributed power requirements or applications where a DC power supply is required and only wall-outlet AC is available. A proven module, the MP1000 is employed by many leading Network Equipment companies to provide a simple reliable power source for their equipment. The MP1000 offers industry leading design, high power density and usable features in a compact package. The MP1000 is also suitable for use in Computing, Telecom and Industrial applications.

The circuit has been designed using the NAVMAT component derating guidelines and this combined with TDI manufacturing quality and in-process Highly Accelerated Stress Screening (HASS) ensures high product reliability and quality.

The MP1000 is feild proven with a high reliability record. When integrated into the 3U shelf the system is capable of producing up to 4000W or 3000W in an N+1 configuration.

Powering the Information Age

TDI - Modular Power Systems
36 Newburgh Road, Hackettstown, NJ 07840 • Phone: 908-850-5088 • Fax: 908-850-1607 • www.tdipower.com/mps

TDI Transistor Devices

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Unit Specifications

INPUT

Input Voltage: 90-264 Volts AC, 47-63Hz, Single Phase.
Input Current: 15 Amperes RMS max.
(low line, rated power)
Peak Inrush Current: 30 Amps Max.
Power Factor: 0.98 Typical
Efficiency (Typical): 87% @ 220Vac input
Hold up time: > 20 mSec.

OUTPUT

Model: MP48-20, MP24-40
Output Power: 1000W
Output Voltage: -43 to -58Vdc or +23 to +28Vdc
Output Current: 20A @ -48Vdc, (40A @ +24Vdc)
Line Regulation: Less than ±0.25%
Load Regulation: 0.2% from 10% to full-load;
2% from no-load to full load
Output Ripple & Noise: Less than 1%
"OR" ing Diode: DC output contains an isolation Diode allowing Hot-Bus plug-in.
Parallel use: May be paralleled with like units.

ALARMS AND CONTROLS

Output Voltage adjustment: Output voltage adjustment potentiometer is accessible from front panel.
Remote Output Controls: Remote inhibit, Margin Low, equalize and voltage program capability.

FRONT PANEL INDICATORS AND ALARMS

Fault: Amber LED
AC On: Green LED
Current Meter: Bar-graph

PROTECTION

Over Voltage: Shutdown occurs if the output voltage exceeds 30/60Vdc. Input supply needs to be switched to restart the unit.
Over Current: 42/21A maximum. Units are short circuit protected
Over Temperature: Internally monitored, unit is switched off in the event the Heatsink temperature reaches a pre-set point, unit automatically recovers once cooled.

ENVIRONMENTAL

Operating Temperature: 0 to 50°C
Humidity: 0% to 95% non-condensing.
Cooling: Internal fans intake air through the front of the unit and exhaust air out the rear.

MECHANICAL

Dimensions Module: H5.22″ x W4.07″ x D15.5″ **
Weight: 11 lbs
Connector: Hot-plug mating connector, ELCON Lower Drawer
Shelf Dimensions: H5.25″ x W19″ [Rack mount] x D20″

**Can be tailored to meet other dimensions.

AGENCY COMPLIANCE

EMI: (Conducted) FCC Part 15, Subpart j, Class A and EN55022 level A
Safety: UL1950, EN60950 and CSA 22.2#234
CE Marked (LV Directive)

NON- STANDARD REQUIREMENTS

The MP1000 has been designed with tailoring in mind. Custom paint and markings, different output voltages and alarms are all part of TDI-MPS service. Please contact your usual TDI representative with specific needs.



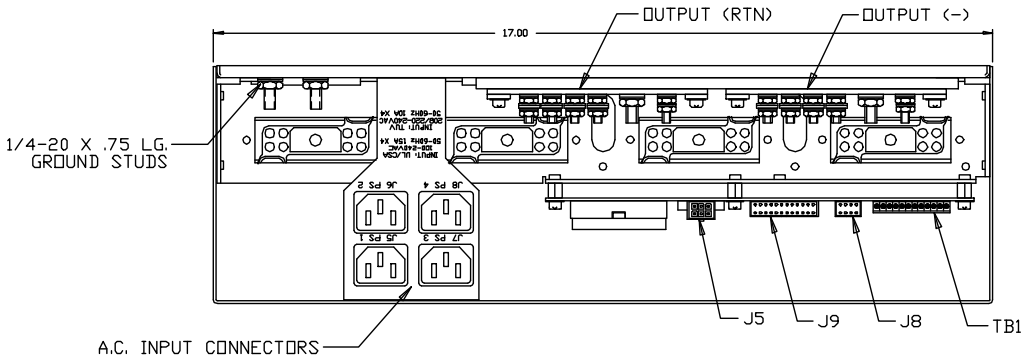
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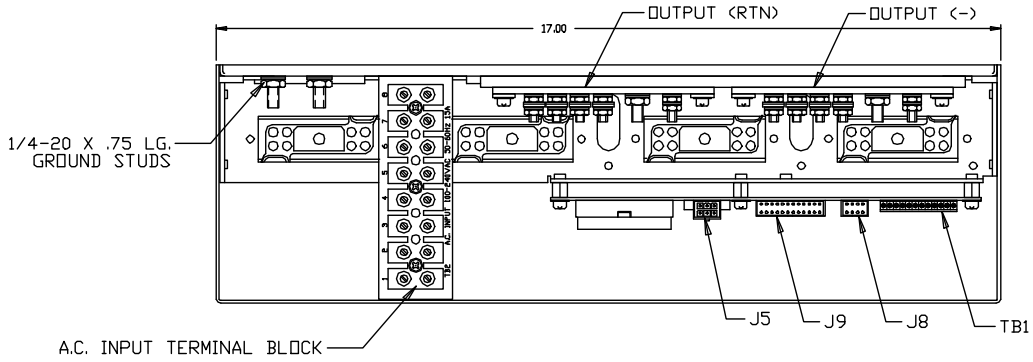
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For Telecom, Computer & Industrial Applications

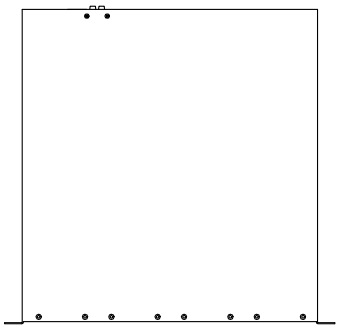
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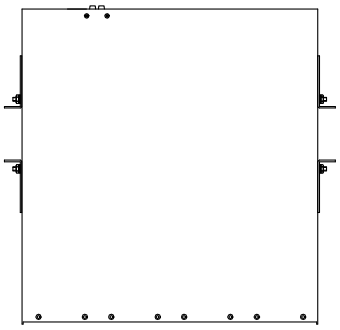
AC Input - IEC



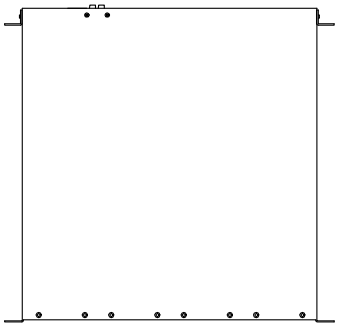
AC Input - Terminal Block



Front-Mount



Mid-Mount (Telco Style)



Front/Rear – Mount

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Configuration Table

19″ Racks	48Vdc Racks		24Vdc Racks	
AC connection Type	Terminal block	AC Line cords	Terminal block	AC Line cords
Front Mount	SPS5349-5	SPS5349-2	SPS5358-5	SPS5358-2
Mid Mount (Telco)	SPS5349-4	SPS5349-1	SPS5358-4	SPS5358-1
Front – Rear Mount	SPS5349-6	SPS5349-3	SPS5358-6	SPS5358-3
23″ Racks	**48Vdc Racks**		**24Vdc Racks**	
AC connection Type	Terminal block	AC Line cords	Terminal block	AC Line cords
Front Mount	SPS5364-7	Contact Factory	Contact Factory	Contact Factory

Filler panel	129437	
Output Cable set	130019	Red/Blk, 4Ga, 39″ length with Lugs both ends.
MP1000-48-20 PSU	48V, 20A module	SPS5363-1
MP1000-24-40 PSU	24V, 40A Module	SPS5356-2

This data sheet is believed to be correct at time of publication and Transistor Devices, Inc. accepts no responsibility for consequences from printing errors or inaccuracies. Specifications are subject to change without notice.

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