



Applications

- Cellular
- PCS
- Paging
- Wireless Local Loop
- Microwave Systems

Features

- Switchmode Technology
- Hot Bus Plug-In Capability
- Front Access Design
- Power Factor Correction
- Alarm Signals
- UL, CSA, VDE Approvals, CE Mark (Pending)
- N + 1 Redundant Operation
- Full 2 Year Warranty
- Highly Accelerated Stress Screening Programs
- Wide Input Range, 90-264VAC
- Microprocessor Base Monitoring and Control

Product Overview

OVERVIEW

TDI-Telecommunications Power Systems sets a new industry standard for switchmode rectifiers. The light weight, compact modules feature power factor correction, high power density, and international power input. Each module is equipped with representative telecommunication and cellular alarm outputs. The hot bus plug-in capability allows for easy removal and replacement of rectifiers without interrupting the power bus or system operation.

DESIGN FEATURES

The highly reliable 10 Amp rectifier module is user friendly and minimizes installation, maintenance and system downtime. The front panel features a user interface that includes a FAULT LED and a "POWER GOOD" LED.

Powering the Information Age

TDI - Telecommunications Power Systems

36 A Newburgh Road • Hackettstown, NJ 07840 • Phone: 908.979.0088 • Fax: 908.979.0466 • www.tdipower.com/tps

Specifications

INPUT

Input Voltage: 90-264 Volts AC, 47-63Hz, Single Phase
Input Current: 6 Amps RMS maximum at low line rated power
Peak Inrush Current: 30 Amps Maximum
Power Factor: 0.99 Typical
Efficiency: 85% @ 220Vac input
Hold up time: > 20 mSec.

OUTPUT

Output Voltage -48 Volt: -43 to -58Vdc
Output Voltage +48 Volt: +25.5 to +29Vdc
Output Current -48 Volt: 10 Amps
Output Current +24 Volt: 20 Amps
Output Power: 600 Watts
Ripple & Noise: 300mV pk-pk, <32dBmC
Line Regulation: Less than $\pm 0.25\%$
Load Regulation: $\pm 2\%$ from no-load to full load
"OR" ing Diode: DC output contains an isolation Diode allowing Hot-Bus plug-in
Parallelability: May be paralleled with like units

ALARMS AND CONTROLS

AC Fail: TTL Compatible Signal
Over Temp Warning: TTL Compatible Signal
Output Volts Low: TTL Compatible Signal

FRONT PANEL INDICATORS AND ALARMS

Summary Fault: (Red LED), output voltage falls 10% below set voltage.
Power Good: (Green LED), will be lit when AC is within limits.

ENVIRONMENTAL

Operating Temperature: -10 to 50C
Humidity: 0% to 95% non-condensing
Cooling: Internal fans intake air through the front of the unit and exhaust air out the rear.

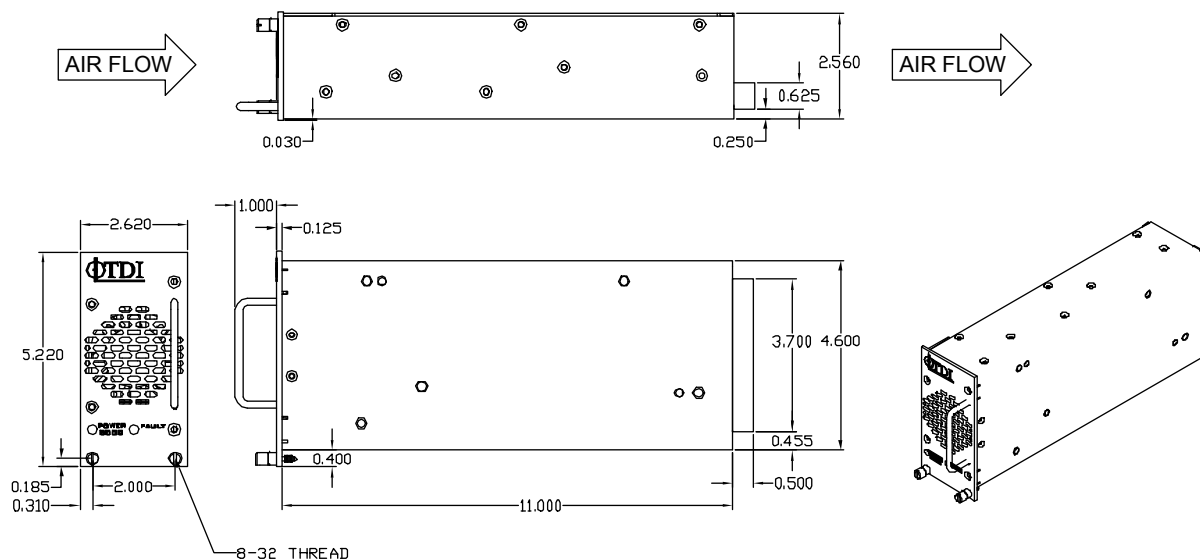
MECHANICAL

Dimensions Module: H5.22" x W2.62" c D11"
Weight: 5 lbs.
Connector: Hot-plug mating connector, ELCON Minipak

AGENCY COMPLIANCE

EMI: (Conducted) FCC Part 15, Subpart j, Class A (Radiated), EN55022 Level A
Safety: UL1950, EN60950 and CSA 22.2#234, Harmonics comply with EN61000-3-2, CE Marked (LV Directive)

Outline



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.

Powering the Information Age

TDI - Telecommunications Power Systems

36 A Newburgh Road • Hackettstown, NJ 07840 • Phone: 908.979.0088 • Fax: 908.979.0466 • www.tdi-power.com/tps