



Applications

- Remote Electronics (Fiber)
- Central Offices
- MTSO
- Cellular
- PCS
- Wireless Local Loop
- CATV
- Microwave Systems

Features

- Modular, High Power Density
- Hot Bus Plug-In Capability
- UL, CUL and TUV Recognized
- International 50/60 Hertz Input
- V/A Digital Meter
- Power Factor Corrected
- Current Walk-In
- Automatic Load Share
- Highly Accelerated Stress Screening Program
- AC Power On Indicator (Green)
- Summary Fault Indicator (Amber)
- 2-Pole Circuit Breaker Protection
- Soft Start Turn On
- Insert / Extract Handle

Product Overview

OVERVIEW

TDI-Telecommunications Power Systems rectifiers are the industry benchmark for reliability due to our field proven design. The light weight, compact modules feature power factor correction, automatic load sharing, current walk-in and international power input. Each module is equipped with representative telecommunication and cellular alarm outputs, and V/A digital meter. 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 65 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, AC "ON" LED, output voltage adjustment, bar chart/ammeter and the AC ON/OFF circuit breaker. The breaker is linked to the module handle to ensure that it is in the OFF position when the rectifier is withdrawn from the rack assembly.

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Unit Specifications

INPUT

Input Voltage: 176-264 Volts AC, 47-63 Hz, Single Phase
Input Current: 24 Amps RMS maximum at low line, rated power

Peak Inrush Current: 60 Amps maximum

Power Factor: 0.98

Harmonic Distortion: Less than 5% total harmonic distortion at full load and less than 3% for each harmonic

Efficiency: 85% at low line, full load

OUTPUT

Output Voltage: Adjustable from -50 to -59 Volts DC
 Rectifiers are set to -54 Volts at the factory

Output Current: 65 Amps

Output Power: 3600 Watts maximum

Line Regulation: Less than $\pm 0.25\%$

Load Regulation: $\pm 0.2\%$ from 10% to full load. $\pm 2\%$ from no load to 10% load.

Walk-In: 5 seconds from -50 volts to -56 volts.

Paralleability: May be paralleled with other like units for increased output.

PROTECTION

Overvoltage: Shutdown occurs if the output voltage exceeds the overvoltage set point. Reset is accomplished by re-cycling input power. Rectifiers are factory set to -60 volts.

Overcurrent: 74 Amps maximum. Short circuit protected.

Overtemperature: An internal thermostat turns the rectifier off if the heat sink temperature exceeds 100C. Recovery is automatic when the unit cools.

CONTROLS

Fault: A front panel amber "FAULT" LED will be lit if the rectifier has a low output voltage while the AC input is present.

AC ON: A front panel green "AC ON" LED will be lit if the AC input is above the minimum needed to operate.

Voltage Adjust: The output voltage adjustment potentiometer and the "voltage reference" tests points are located on the front panel of the rectifier. This aids in aligning all installed rectifiers to the same set point without powering down any units.

Volt/Amps Meter: A front panel meter measures the output current or rectifier voltage.

AC ON/OFF: The input circuit breaker is mounted on the front panel and is protected from accidental operation by the handle assembly. The breaker is also linked to the handle to ensure that it is in the OFF position when the rectifier is withdrawn from the rack assembly.

ENVIRONMENTAL

Cooling: All units are forced convection cooled with a constant speed internal fan drawing cool air from the front and exhausting warm air out the rear.

Heat Dissipation: 1,900 BTU/hour

Operating Temperature: 0 to +50C

Humidity: 0% to 95% non-condensing

Operating Altitude: -200 to +13,000 ft.

MECHANICAL

Height: 7"

Width: 5.25"

Length: 16.5"

Weight: 23 lbs.

RELIABILITY

MTBF: This unit has a field demonstrated mean time between failure of 700,000 hours in normal operation.

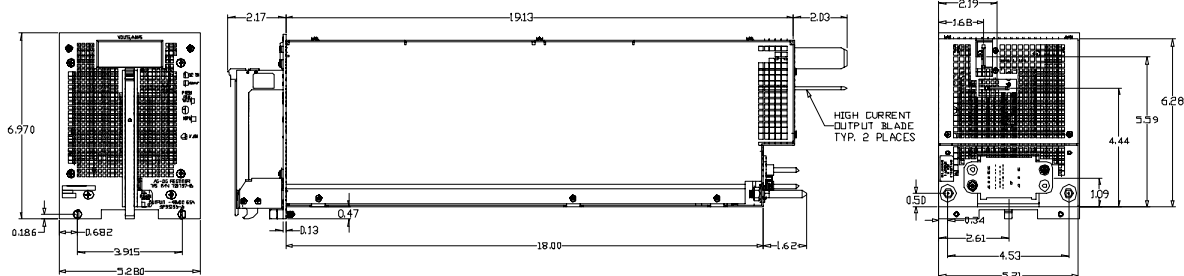
AGENCY COMPLIANCE

EMI: Radiated and conducted noise on the input meets FCC Part 15, Subpart j, Class A, and VDE0871, Class A.

Safety: This unit is designed to meet UL1950, IEC950, CSA 22.2#234 and TUV EN60950.

For detailed performance specifications – See #129473

Unit Specifications



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