



FEATURES

- **Patented, True 3-Phase Power Factor Correction (Single Phase also available)**
- **Internal 500W Modular, Building Blocks Achieve Rated Power for up to 4 Outputs**
- **2.0V, 2.5V, 3.3V, 5V, 12V and 15V Standard Modules Can Be Configured For Positive or Negative Operations**
- **“System Ready” Status Signals**
- **Wide Operating Temperature Range (-40° to 60°C)**
- **External Synchronization**
- **Parallelable Between Multiple RPS Series Power Supplies**

PRODUCT OVERVIEW

The RPS Series power supplies provide true 3 phase active Power Factor Correction in a single module. This technology offers significant advantages over traditional multimodule 3-phase solutions: Increased power density, lower component count and higher reliability. The RPS Series of power supplies also represents the first, high power system based on 500W internal modules configured as building blocks for each of the 4 outputs. In today's demanding telecom and computer applications, the need for high powered outputs ranging from 2.0V to 5V is a top priority. Supplying that power to each output is a continual challenge to the power supply – except when TDI is involved!

Offering output voltages of 2.0V, 2.5V, 3.3V, 5V, 12V and 15V the RPS Series can offer up to 500W on any output (2000W total). These output building blocks can then be paralleled internally, or externally with other RPS Series units, for significantly more power.

In addition, the RPS Series offers a host of system ready status signals that enhance and support system integration efforts. Combined with a wide operating temperature range and a standard 19-inch rack mount design, the RPS Series will clearly become the preferred footprint for today's telecom and datacom system designers.

Robust Systems For Critical Applications

TDI - Advanced Conversion Products

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UNIT SPECIFICATIONS

INPUT

Input: 208VAC $\pm 20\%$, 3 Phase, 4 Wire Voltage 50 or 60Hz
120VAC, 1 Phase

Power Factor: 0.98 Minimum, Actively Corrected

Total Harmonic Distortion: 5% Max, No Harmonic > 3%

Isolation: Input – Output: 20 M Ω @ 1500VAC

Input – Chassis: 20 M Ω @ 1500VAC

FEATURES

Active 3-phase Power Factor Correction (Patent # 5, 502, 630)

Overcurrent/Short Circuit Protection

Output Voltage

Summary fault LED

AC/DC good LED's

ENVIRONMENTAL

Temperature: Operating -40°C to +60°C

Non-Operating -46°C to +85°C

Altitude: Operating Sea-level to 10,000 ft

Non-Operating -5,000 – 50,000 ft

Humidity: 0 - 100% Non-Condensing

Shock: Per MIL-STD-810E, Method 516.4,
Procedure IV

Vibration: Per MIL-STD-202, Method 204,
Test Condition A

Weight: 32 lbs

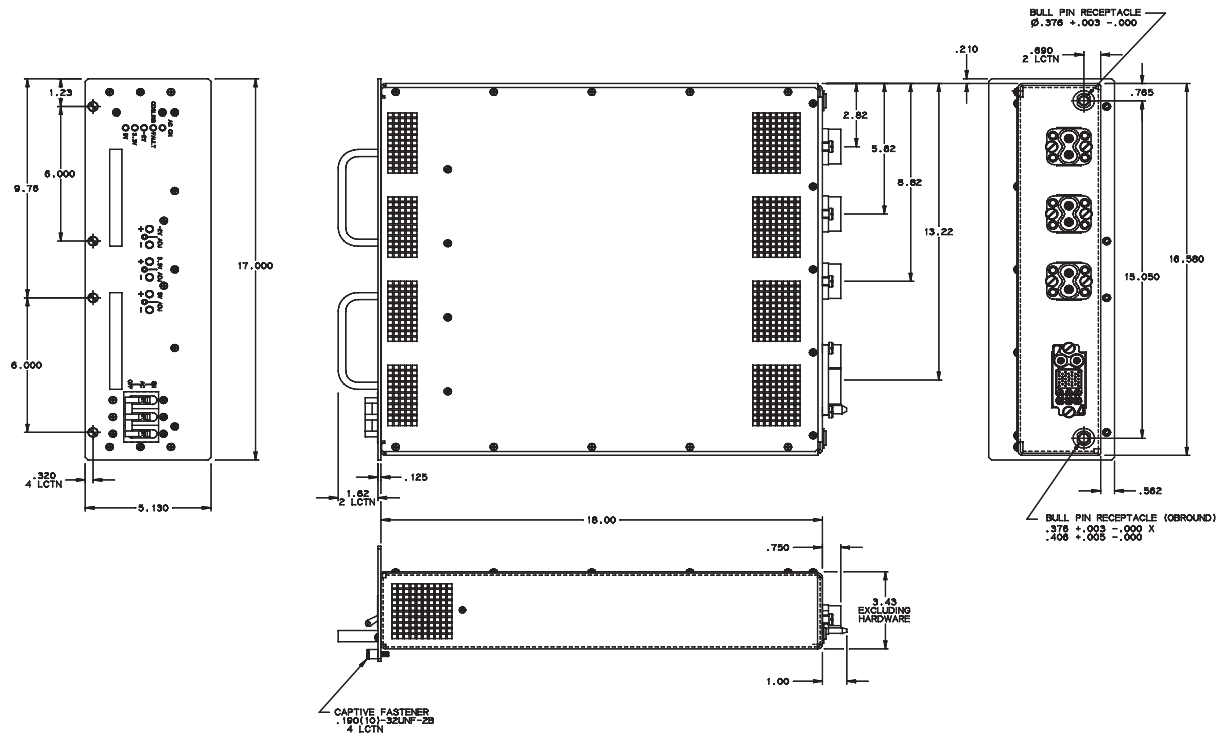
Cooling: Forced Air. (Internal Fans)

Mechanical Outline: 19" Rack (per Figure 1)

EMI: Per MIL-STD-461, GB Equipment

MTBF: 69,000hrs ground fixed

OUTLINE



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Note that the exact product shown on this data sheet may not be available for purchase due to prior contractual obligations. Please contact TDI for current available products or to discuss a modification to an existing design.

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