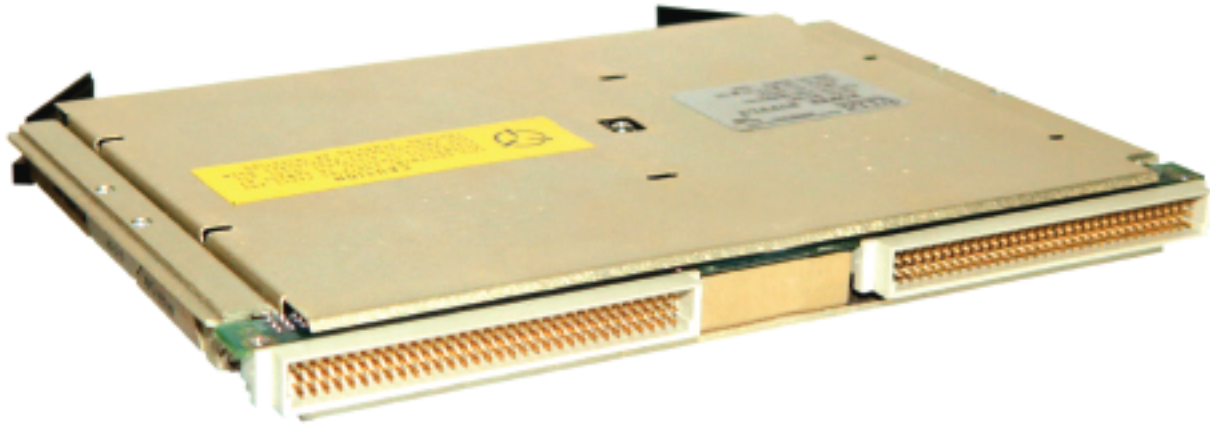


Synchronous Rectification is utilized in both the 3.3Vdc @ 27A and 5Vdc @ 12A outputs in order to achieve an outstanding Efficiency Rating of  $\geq 87\%$ .



## FEATURES

- ▶ Designed for Airborne ATR Enclosures
- ▶ Plug-in, 6U Euro Card
- ▶ Fully Conduction Cooled
- ▶ 270Vdc Nominal Input (200-400Vdc)
- ▶ Dual Output (3.3Vdc & 5Vdc Standard)
- ▶ Custom Versions Available

### Applicable Standards:

- ▶ MIL-STD-461E (EMI)
- ▶ MIL-STD-810 (Environmental)
- ▶ MIL-HDBK-217 (Reliability)
- ▶ MIL-STD-167-1 (Vibe)
- ▶ IEEE Std. 1101.2 (Mechanical)
- ▶ ANSI/VITA 1 - 1994 (Mechanical)

### Characteristics:

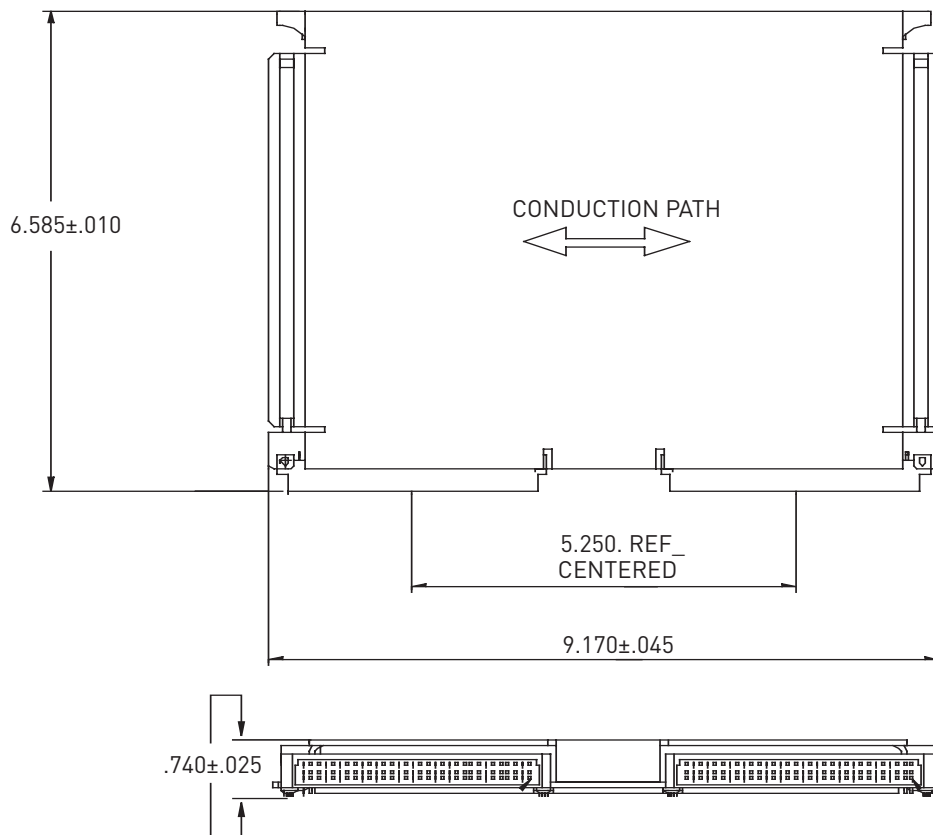
- ▶ Output Power: 150 Watts (3.3Vdc @ 27A and 5Vdc @ 12A)
- ▶ Efficiency 87%
- ▶ MTBF of 30,000+ Hours (per MIL-HDBK-217 AIC 70°C)
- ▶ Operating Temperature -40°C to +70°C (Higher Temp Operation Available)
- ▶ RS-422 Interface

## SUMMARY

These power supplies are ideal for applications where a chassis-mounted power converter is not feasible due to physical or environmental constraints. For higher power needs the fully conduction cooled power cards may be paralleled. An open-frame version can provide power up to 500W in a single card where cooling air is present.

**MECHANICAL CHARACTERISTICS**

- ▶ Single-pitch, Enclosed Card
- ▶ Dimensions: 9.17 x 6.588 x .74 Inches  
233mm x 167mm x 19mm
- ▶ Weight 2.2 pounds (1kg)
- ▶ Mounting Via Wedge Locks
- ▶ Dual MIL-55302 Type 96 Pin Connectors (Standard)
- ▶ Conduction Cooled Through Side Rails



**SUMMARY**

TDI Power creates highly reliable, robust AC and DC power systems for mission critical applications in various military environments including airborne, shipboard and ground systems. We are an ISO certified company with world-class design, production, and support facilities located throughout North America, Europe, and Asia.

Please visit our web site at [www.tdipower.com](http://www.tdipower.com) for additional info on our products and capabilities.