

## FEATURES

- 7.5 Amps Steady State
- Front Panel IEC-60320-1 Connector
- Fan Cooled
- 1.55 Inches High
- N+1 Redundant
- RoHS & WEEE Compliant



## OVERVIEW

The Front Connect series is a family of cost-effective, high-reliability power converters featuring front panel power input. Shown here, the 400 Watt AC-DC Rectifier is a 90-264 VAC input, 400-watt, -54VDC output module. It is fan cooled and thin enough to fit within a 1U shelf. It is ideally suited for small TelCom systems to drive loads and charge lead-acid batteries. This 400W rectifier is used in TDI's 3U Power Center.

## SPECIFICATIONS

### INPUT

**Input Voltage:** 90-264VAC, 1 $\emptyset$ , 47-63 Hz.

Power Factor Correction

**Input Current:** 5.6A RMS maximum at low line, full load.

**Inrush Current:** 40A peak, cold turn-on.

**Hold-up time:** 18mSec. minimum.

**Efficiency:** 85% minimum at 220VAC input at full load.

**Conducted Emissions:** FCC Part 15, Sub-part J, Class B; and EN55022, Class B.

### OUTPUT

**Total Power:** 400W continuous.

**Output:** -44 to -58V @ 7.5A (max. current) Contact factory for other voltages.

**Ripple, Noise:**  $\leq 120\text{mV}$  P-P measured @ 20MHz bandwidth.

**Line Regulation:**  $\pm 1\%$  maximum.

**Load Regulation:**  $\pm 3.0\%$  maximum, zero to full load.

**Turn On Delay:**  $\leq 2$  Seconds.

**Turn On Overshoot:**  $\leq 1\%$

**Temperature Coefficient:**  $= 0.02\%/^{\circ}\text{C}$

**Dynamic Response:** Return to regulation  $\leq 500\mu\text{s}$ .

Peak excursion  $\leq 3\%$  for a 50-100% step load change.

### PROTECTION

**Over-voltage:** Latching type. Shut-down occurs at 114 to 126% of voltage set point. Recycle AC input.

**Short Circuit:** Auto-recovery.

**Over-current:** Foldback. 110-130%. Auto-recovery.

**Over-temperature:** Internal thermostat. Auto-recovery.

**Input Over-current:** Internal fusing on both AC legs.

