



**TRUMPower**

# 200 WATT POWER FACTOR CORRECTED SUPPLIES

## DESCRIPTION

The PFC200 series comprises single and multiple output models for 200 watts of continuous output power. All models have a power factor better than 0.95, and have the same mechanical dimensions and output pinning as their corresponding PU200 series models. All auxiliary outputs are with magnetic amplifier to keep regulation. The units are constructed on a printed circuit board with a U-bracket for mechanical support and heat sinking. Both "B" and "C" versions are with UL, CSA and TÜV approvals.

## FEATURES

- Power Factor 0.98 typical
- 90 VAC to 264 VAC universal input
- In compliance with EN 55024, EN 61000-3-2 and EN 61000-3-3
- Overvoltage protection
- Short-circuit protection
- Power Fail Detect (PFD) signal
- 100% burn-in at full rated load
- Remote sense on single output models

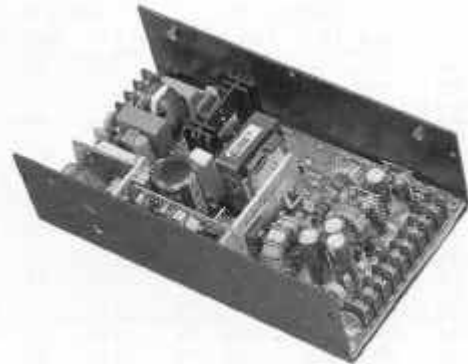
## INPUT SPECIFICATIONS

**Input voltage:** 90 to 264 VAC  
**Input frequency:** 47 to 63 Hz  
**Input current:** 3.6A (rms) for 115VAC  
 1.8A (rms) for 230VAC  
**Leakage current:** 0.4mA max. @115VAC, 60Hz  
 0.8mA max. @230VAC, 50Hz

## OUTPUT SPECIFICATIONS

**Output voltage/current :** See rating chart  
**Total output power:** 200 watts maximum  
**Ripple and noise :** 2% peak to peak maximum  
**Overvoltage protection :** Provided on output #1 only; set at 112 - 132 % of its nominal output voltage  
**Overcurrent protection:** All outputs protected to short circuit conditions  
**Temperature coefficient:** All outputs +/-0.04%/ °C maximum  
**Transient response :** Maximum excursion of 4% or better on all models; recovering to 1% of final value within 500us after a 25% step load change  
**PFD signal :** TTL logic high for normal operation and TTL logic low upon loss of input power. This signal appears at least 1 ms prior to master output dropping 5% below its nominal value. This signal also provides a minimum delay of 100 ms after master output is within regulation.

PFC200 SERIES



## Safety Standard Approvals:



UL 1950  
File No. E137410



C22.2 No. 950  
Certificate No. LR93632(157810)



EN 60950  
Certificate No. R9955628

## ENVIRONMENTAL SPECIFICATIONS

**Operating temperature:** 0°C to +70°C  
**Storage temperature:** -40°C to +85°C  
**Relative humidity:** 5% to 95% non-condensing  
**Derating:** Derate from 100% at +50 °C linearly to 50% at +70 °C  
**Cooling:** 25 CFM forced air, provided on "C" version, to be provided for "B" version by user

## GENERAL SPECIFICATIONS

**Switching frequency:** 94KHz +/-10KHz  
**Power factor:** 0.98 typical  
**Efficiency :** 70% minimum on all models  
**Hold-up time :** 12 msec minimum at 110VAC  
**Line regulation :** +/-0.5% maximum at full load  
**Inrush current :** 20 amps @ 115VAC, or 40 amps @ 230VAC, at 25 °C cold start  
**Withstand voltage :** 3000VAC from input to output  
 1500VAC from input to ground  
 500VAC from output to ground  
**MTBF :** 300,000 hours minimum at full load at 25°C ambient, calculated per MIL-HDBK-217F  
**EMI requirements :** In compliance with  
 (a) FCC Level B  
 (b) EN 55022 Class B  
**Safety requirements :** Meets or exceeds:  
 (a) UL 1950  
 (b) CSA C22.2 No. 950  
 (c) IEC 950 (EN 60950)

