*Active PFC*

# FSP250-601U

## 250 WATT ATX INDUSTRIAL POWER SUPPLY WITH PFC

### FEATURES

- High efficiency
- Active PFC circuit
- Power factor correction (PFC)>0.95@100VAC
- Internal 12 VDC fan included
- Low noise and ripple
- Complies with FCC part 15 subpart J class B 115VAC operation and CISPR 22 class B 230 VAC operation
- Output over voltage protection
- Short circuit protection on all outputs
- MTBF above 50,000 hrs. at 25° C
- 100% Hi-pot & ATE tested
- Short circuit protection on all outputs
- Resettable power shut down
- 100% burn-in under high ambient temp. (50° C)
- Approved by UL 1950, CSA C22.2 Level 3, IEC 950, VDE 60950, TUV EN60950, NEMKO (CB Report)

### Remote On/Off Control:

The power supply shall accept a logic collector level which will disable/enable all output voltage (except +5V standby)

### INPUT SPECIFICATIONS

| | |
|---|---|
| Input Range: | 95 ~ 264 VAC, full range |
| Frequency: | 47Hz ~ 63Hz |
| Input Current: | 5A RMS @ 115VAC<br>2.5A RMS @ 230VAC |
| Inrush Current: | 50A Max. for 115VAC<br>80A Max. for 230VAC |

### GENERAL SPECIFICATIONS

| | |
|---|---|
| Temperature Range: | Operating, 0°C to +50°C<br>Storage, -20°C to +80°C |
| Temp. Coefficient: | 0.01% / ° C |
| Transient Response: | Output voltage recovers in less than 1mS max. following a 25% load change |
| Hold up Time: | 20mS minimum at full load & nominal input voltage |
| Dielectric Withstand: | Input to frame ground 1800 VAC for 1 sec. |
| Humidity: | 95% RH |
| Efficiency: | 68% at minimum measured at nominal AC main voltage and frequency with maximum load on all output |
| Power Good Signal: | Power on delay time 100ms to 500ms, off delay 1ms minimum |
| Overload Protection: | 150% maximum |
| Dimension (mm): | 40.5H x 100W x 205L |

### OUTPUT SPECIFICATIONS

| Output Voltage | Minimum | | Maximum | | Load | Line | Ripple/Noise |
|---|---|---|---|---|---|---|---|
| +3.3V | 0.3A | 16A | ±5% | ±1% | 50mV | *+3.3V | 0.3A |
| +5V | 2A | 25A | ±5% | ±1% | 50mV | +5V | 2A |
| +12V | 0.2A | 13A | ±5% | ±1% | 120mV | +12V | 0.2A |
| -5V | 0A | 0.3A | ±5% | ±2% | 100mV | *-5V | 0A |
| -12V | 0A | 0.8A | ±5% | ±2% | 120mV | -12V | 0A |
| +5Vsb | 0A | 2A | ±5% | ±1% | 100mV | +5Vsb | 0A |

*Maximum power: 250W
*+5V and +3.3V total output not exceed 145W

Note: All data are subject to change without notice.

FORTRON/SOURCE

23181 Antonio Parkway, Rancho Santa Margarita CA 92688 U.S.A. ◆ Telephone: (949) 766-9240 ◆ Fax: (949) 766-9241
E-mail: salesusa@fspgroup.com ◆ Website: www.fspgroup.com

Rev. C 8-2003/DC