



**POWER FACTOR CORRECTING
300W, 400V PRE-REGULATOR**

PS2290 POWER SUPPLY FEATURES

| | |
|---------------------------------|---|
| INPUT POWER: | 90 - 275 Vac, 47 - 63 Hz, Single Phase, 4A Max service (with Active Power Factor Correction) |
| INRUSH CURRENT: | Limited by Active Inrush Current Protection to less than < 20A peak @ 115Vac, < 40A peak @ 230Vac |
| INPUT/ OUTPUT CONNECTOR: | AC Inlet and flying lead output |
| OUTPUT POWER: | 300W (400 VDC @ 750 milliamperes) |
| NOMINAL SIZE: | 6" L x 5" H x 4" W |
| WEIGHT: | 2.6 Lb |
| OPERATING AMBIENT: | 0-55 degrees Celsius |
| COOLING: | Customer Air - 40 or 80 CFM fan depending upon application |
| SIGNALS: | Line Trigger |
| CONSTRUCTION: | Partially enclosed steel chassis "L" bracket |
| PROTECTIONS: | AC input undervoltage protection; Self-restarting type hysteretic overvoltage protection on high voltage dc bus, power limiting; overtemperature protection, resetting with hysteresis; |
| POWER CIRCUIT: | 70 kHz power factor correcting boost converter |



11. TYPICAL PERFORMANCE SUMMARY

| | |
|--|---|
| Inrush Current @ 230 Vac | 33.2 Apk |
| Line Current Harmonics | Complies with EN61000, Paragraph 3.2 |
| Line Conducted EMI | Complies with EN55022B and FCC A |
| Line Regulation | < 1 % |
| Load Regulation | < 3 % |
| OUTPUT DC OVP | 444 V |
| INPUT AC UVP | 82 V – 87 V |
| Power Factor @ Efficiency @ 115 Vac, 300W | Power Factor .998; 93.9 % Efficiency |