

## SPECIFICATIONS:

## Ac Input

85-264 Vac, 47-63 Hz single phase.

## Output Power

Continuous output power, 600 watts.

## Hold-upTime

20 ms minimum from loss of ac input until output reaches $3 \%$ below nominal.

## Line and Load Regulation

$\pm 1 \%$ over the entire input voltage and frequency range, and over the entire output current range.

## Minimum Load

No minimum load required.

## Overload Protection

Current limit 105\% minimum, 125\% maximum of the specified full load current.

## Output Noise

100 mV pk-pk maximum @ 20 MHz bandwidth, 50 mV pk-pk maximum ripple.

## Transient Response

Maximum of $5 \%$ change in Vout for a load change of 12.5 A . Recovers to $\pm 1 \%$ within 500 u sec.

## Overvoltage Protection

Built in, OVP crowbar reduces output voltage below nominal rating in less than 50 ms . Output voltage decay is dependent upon loading.

## DC Power Good

Optocoupler isolated output indicates that the DC output is equal to or greater than $21.6(-0+0.25)$ volts. This signal shall be driven when in the active 'DC Good' state.

## Efficiency

Minimum of $75 \%$ under full load and input of 120 Vac 60 Hz .

## FEATURES:

- Small package ( 12.00 " $\times 5.50$ " $\times 3.09^{\prime \prime}$ )
- Power factor corrected to EN61000-3-2 Class A
- Operating range to $60^{\circ} \mathrm{C}$ ambient
- 85 to 264 Vac Input
- Medically Approved to UL2601-1, IEC601-1, CSA C22.2 No. 601.1.2
- 2 year warranty
- C $\in$ marked to LVD


## Inrush Current

Limit inrush current to $125 \%$ of maximum operating current. Turn on time of the power supply not to exceed 3 seconds over the full input voltage and frequency range.

## EMI/EMC Compliance

All models include built-in EMI filtering to meet emissions requirements:

| EMI SPECIFICATIONS | COMPLIANCE LEVEL |
| :--- | :--- |
| Conducted Emissions | EN55011 Class B; FCC Class B |
| Static Discharge | EN61000-4-2, 6 kV contact, 8 kV air |
| RF Field Susceptibility | EN61000-4-3, $3 \mathrm{~V} /$ meter |
| Fast Transients/Bursts | EN61000-4-4, $2 \mathrm{kV}, 5 \mathrm{kHz}$ |
| Surge Susceptibility | EN61000-4-5,1 kV diff., 2 kV com. |

## Vibration and Shock

Model meets MIL-STD 810E, method 514.4 Category.

## Environmental

Designed for 0 to $60^{\circ} \mathrm{C}$ operation, derate output current and total output power by $2.5 \%$ per ${ }^{\circ} \mathrm{C}$ above $50^{\circ} \mathrm{C}$.

## Medical Leakage Current

$150 \mu \mathrm{~A}$ under normal conditions. Maximum under single fault conditions, $250 \mu \mathrm{~A}$. Patient sink leakage with 120 Vac, 60 Hz applied to any output with respect to the chassis will be less than $500 \mu \mathrm{~A}$.

Medical Safety Agency
Approved to UL2601-1, EN60601-1, CSA-C22.2 No. 601.1.

## GPFM600 Medical

 600 Watt Global Performance Switchers| Commercial Model | Output | Output <br> Maximum $(\mathrm{A})$ | OVP Setpoint | Total Regulation | Noise P-P |
| :--- | :---: | :---: | :---: | :---: | :---: |
| GPFM600-24 | 24 Vdc | 25 A | $28.2 \pm 1.2 \mathrm{~V}$ | $1 \%$ | 100 mV |

## GPFM600 MECHANICAL SPECIFICATIONS

INPUT: J1
MOLEX P/N 43160-31-3

PIN 1: AC LINE
PIN 2: AC NEUTRAL
PIN 3: EARTH GROUND

OUTPUT: J2
MOLEX P.N. 39-29-1147
14 PIN RIGHT ANGLE HEADER
PIN 1: +24 V
PIN 2: +24 V
PIN 3: +24 V RETURN
PIN 4: +24 V RETURN
PIN 5: N/A
PIN 6: AC GOOD
PIN 7: AC GOOD RETURN
PIN 8: +24 V
PIN 9: +24 V
PIN 10: +24 V RETURN
PIN 11: +24 V RETURN
PIN 12: N/A
PIN 13: DC GOOD
PIN 14: DC GOOD RETURN

| Environmental <br> Specification | Operating | Non-operating |
| :--- | :---: | :---: |
| Temperature (A) | 0 to $60^{\circ} \mathrm{C}$ | -18 to $+60^{\circ} \mathrm{C}$ |
| Humidity (A) | 0 to $97 \% \mathrm{RH}$ | 0 to $97 \% \mathrm{RH}$ |
| Shock (B) | $20 \mathrm{~g}_{\mathrm{pk}}$ | $40 \mathrm{~g}_{\mathrm{pk}}$ |
| Altitude | -500 to $10,000 \mathrm{ft}$ | -500 to $40,000 \mathrm{ft}$ |
| Vibration $(\mathrm{C})$ | $1.5 \mathrm{~g}_{\mathrm{rms}}, 0.003 \mathrm{~g}^{2} / \mathrm{Hz}$ | $5 \mathrm{~g}_{\mathrm{rms}}, 0.026 \mathrm{~g}^{2} / \mathrm{Hz}$ |

