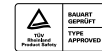


4.5" x 2.5" x 1.22"

- 70 Watts Output Power
- Universal 85-265VAC Input
- 1, 2, 3, and 4 Outputs
- Active Power Factor Correction
- 2.5VDC to 48VDC Outputs



| Model Number | Output #1 | Output #2 | Output #3 | Output #4 |
|--------------|-----------|-----------|-----------|-----------|
|--------------|-----------|-----------|-----------|-----------|

SINGLE OUTPUT

| | | | | |
|------------|----------|--|--|--|
| REL70-1001 | 2.5V/14A | | | |
| REL70-1002 | 3.3V/14A | | | |
| REL70-1003 | 5V/14A | | | |
| REL70-1004 | 12V/5.8A | | | |
| REL70-1005 | 15V/4.7A | | | |
| REL70-1006 | 24V/2.9A | | | |
| REL70-1007 | 28V/2.5A | | | |
| REL70-1008 | 48V/1.5A | | | |

DUAL OUTPUT

| | | | | |
|------------|---------|---------|--|--|
| REL70-2001 | 3.3V/6A | 5V/5A | | |
| REL70-2002 | 5V/6A | 12V/4A | | |
| REL70-2003 | 5V/6A | 24V/2A | | |
| REL70-2004 | 12V/3A | -12V/3A | | |
| REL70-2005 | 15V/3A | -15V/2A | | |

TRIPLE OUTPUT

| | | | | |
|------------|-------|--------|--|---------|
| REL70-3001 | 5V/6A | 12V/2A | | -12V/2A |
| REL70-3002 | 5V/6A | 15V/2A | | -15V/2A |

QUAD OUTPUT

| | | | | |
|------------|---------|---------|--------|---------|
| REL70-4001 | 3.3V/6A | 5V/5A | 12V/2A | -12V/2A |
| REL70-4002 | 5V/6A | 3.3V/5A | 12V/2A | -12V/2A |
| REL70-4003 | 5V/6A | 3.3V/5A | 15V/2A | -15V/2A |
| REL70-4004 | 5V/6A | -5V/5A | 12V/2A | -12V/2A |
| REL70-4005 | 5V/6A | -5V/5A | 15V/2A | -15V/2A |
| REL70-4006 | 5V/6A | 24V/2A | 12V/2A | -12V/2A |
| REL70-4007 | 5V/6A | 24V/2A | 15V/2A | -15V/2A |

Medical Versions Available
Contact Factory



70 Watt Open Frame Switching Power Supply with PFC

REL70 series

INPUT SPECIFICATIONS

| | |
|----------------------------|-------------------------------------|
| Input Voltage, Full Range: | 85-264 VAC |
| Active PFC | >0.95@115VAC |
| Input Frequency | 47-63Hz. |
| Inrush Current | 30A @ 115VAC, typ 4 |
| | 40A @ 230VAC, typ 4 |
| Leakage Current | <300uA @ 240VAC |

OUTPUT SPECIFICATIONS

| | |
|-----------------------------|--|
| Output Power | 50W, Conv/70W Forced Air |
| Minimum Load Requirement | 10% |
| Max Current (A, Peak) | See Model Selection Chart 7 |
| Initial Accuracy | +/-1%, typ |
| Voltage Adjust | ± 8%, typ |
| Load Regulation | ± 1%, typ |
| Cross Regulation | +/-5% |
| Line Regulation | ± 0.5%, typ |
| Temperature Coefficient | ± 0.02%/°C |
| Ripple/Noise | 100mV Pk-Pk, typ |
| Overvoltage Protection | 110-150%, Type 2 & 3 |
| Remote Sense (Singles Only) | 250mV compensation |
| Hold Up/Start Up Times | 16mS/4Sec, typ |
| Short Circuit Protection | Continuous 4 |
| Current Limit | 110-160% typ, Auto Recovery |

GENERAL SPECIFICATIONS

| | |
|--------------------------|-------------------------------|
| Input-Output Isolation | 3000VAC 5 |
| Output-Ground Isolation | 500VAC |
| Input-Ground Isolation | 1500VAC |
| Efficiency (@ Full Load) | 78%, typ |
| | (or See Chart/Curve) |
| Safety | UL60950/EN60950 Approved |
| EMC | EN55022/B, EN61000-3-2,3/A |
| | EN61000-4-2,3,4,5,6,8,11/Cr A |

All specifications are typical at nominal input, full load, and 25DegC unless otherwise noted

A [Blue Number](#) means see respective Specification

ENVIRONMENTAL SPECIFICATIONS

| | |
|---------------------|---------------------------------------|
| Oper. Temperature | 0 to +60 °C 4 |
| Relative Humidity | 10-95%, Description 4 |
| Storage Temperature | -40 to +85 °C 4 |
| MTBF | 100KHrs |
| | MIL-Std 217F |
| Shock & Vibration | To MIL-Std 810E |

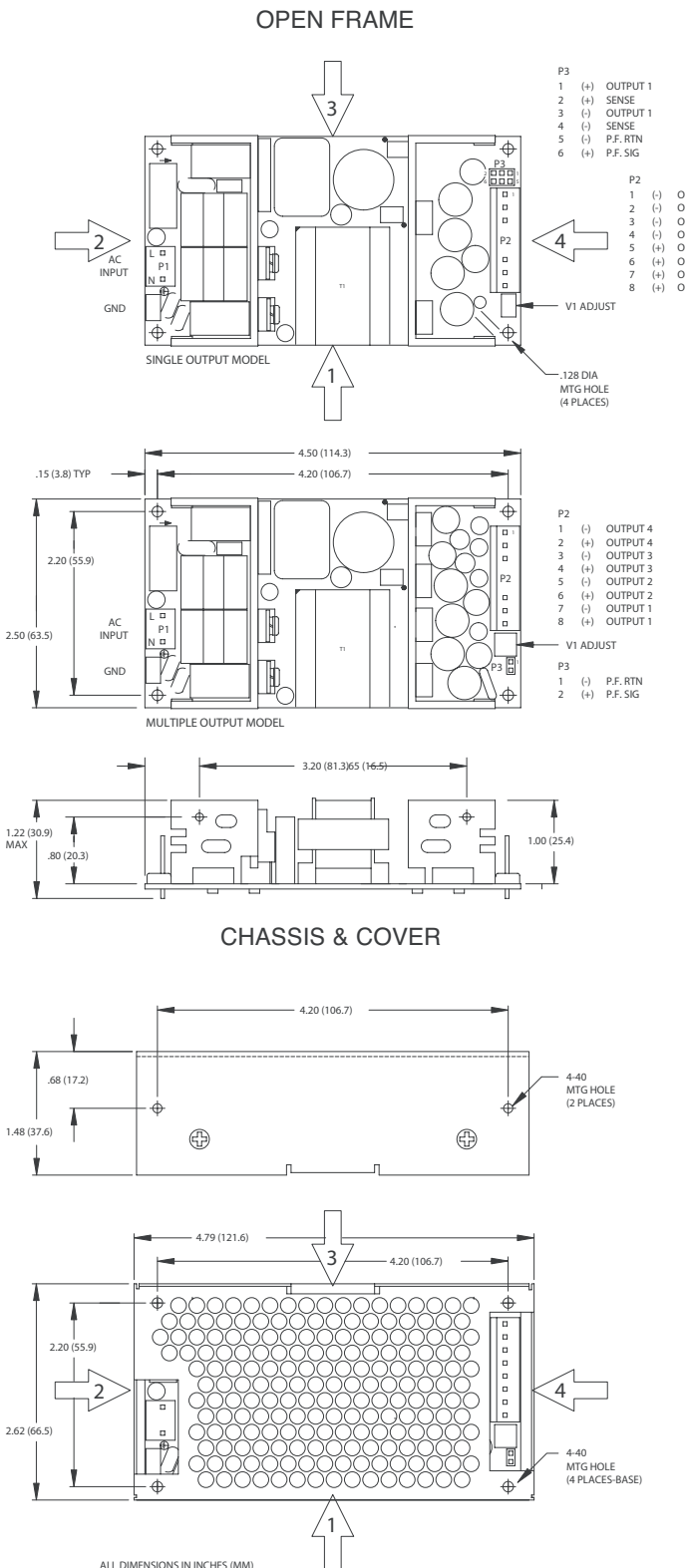
PHYSICAL SPECIFICATIONS

| | |
|-----------------------|-----------------|
| Dimensions | 4.5"x2.5"x1.22" |
| Material Flammability | to UL94V-0 |
| Construction | Open Frame |
| Weight | 0.6lb |

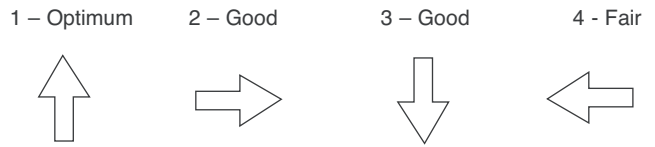
SPECIFICATION NOTES

- 1) All specifications typical @ 25°C, Nominal Line & Load, unless otherwise noted.
- 2) O/P noise measured directly at pins/terminals with 0.1uFbypass, pk-pk @ 20MHz bandwidth.
- 3) Ripple and Noise dependant upon output voltage as specified per particular model.
- 4) These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long term reliability. Proper operation under conditions other than the standard operating conditions is neither warranted or implied.
- 5) Isolation for up to 1 minute duration.
- 6) No termination necessary with control pin to maintain constant "ON" operation (if applicable to this model)
- 7) Max load (peak) specified for 10mS max, 20% duty cycle, minimum load on all outputs

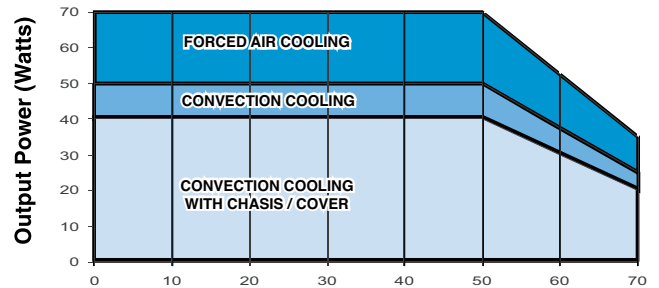
MECHANICAL DIMENSIONS



RECOMMENDED AIR FLOW DIRECTION



THERMAL PERFORMANCE



CONNECTOR SPECIFICATIONS

- P1 AC Input**
- .156 friction lock header mates with Molex 09-50-3031 crimp terminal housing with Molex 2478 crimp terminal
- P2 DC Output (Single)**
- .156 friction lock header mates with Molex 09-50-3181 crimp terminal housing with Molex 2478 crimp terminal
- P2 DC Output (Multiple)**
- .156 friction lock header mates with Molex 09-50-3181 crimp terminal housing with Molex 2478 crimp terminal
- G Ground**
- .187 quick disconnect terminal
- P3 P.F Sense (Single)**
- .100 breakaway header mates with Molex 22-55-2061 crimp terminal housing with Molex 71851 crimp terminal
- P3 Power Fail (Multiple)**
- .100 breakaway header mates with Molex 50-57-9002 crimp terminal housing with Molex 71851 crimp terminal