

PSS60/48/1.2
5



connectwell
THE RIGHT CONNECTION

1.25A,60W Single Phase Din Rail Mountable Switching Power Supplies

- Full Range Input selection from 85 to 264VAC
- Typical efficiency of 89%
- Compact design with a width of only 40.5mm
- Two years product warranty

GENERAL SPECIFICATION

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|--|--|
| Switching Frequency (typ.) | 55-90 KHz |
| Min. Isolation Voltage -AC (Input-FG) | 1500 VAC |
| Min. Isolation Voltage -AC (Input-Output) | 3000 VAC |
| Min. Isolation Voltage -DC (Input-FG) | 2121 VDC |
| Min. Isolation Voltage -DC (Input-Output) | 4242 VDC |
| Isolation Resistance (Input-Output @500VDC) | 100 MΩ |
| Ambient Temperature Range (Operational at Vi norm) | -40 to +71 deg.C |
| Derating from +61°C to +71°C (see derating curve) | 2.5%/ °C |
| Ambient Temperature Range (Storage) | -40 to +85 deg.C |
| Relative Humidity Range | 20 to 95 %RH |
| Temperature Coefficient Range | +/- 0.03 % per deg. C |
| MTBF (Bellcore Issue 6 @40°C, GB) | 531000 hr |
| Altitude During Operation (IEC 60068-2-13) | 4850 m |
| Dimension | Spring Terminal Type , L90 X W40.5 X D114 mm |
| Cooling | Free Air Convection |
| Pollution Degree | 2 |

ORDERING INFORMATION

| | |
|----------------------|---------------|
| Cat. No. | PSS60/48/1.25 |
| Output Voltage | 48 VDC |
| Output Current | 1250 mA |
| Output Wattage | 60 W |
| Efficiency (min.) | 86% |
| Efficiency (typ.) | 89% |
| Input Voltage Range | 85 - 264 VAC |
| Standard Packing Qty | 1 |

PHYSICAL SPECIFICATIONS

| | |
|------------------------|---------------------------------------|
| Dimensions (H x W x D) | 90 X 40.5 X 114 mm |
| Weight | 340 g |
| Case Material | Plastic |
| Packing | 0.41kg ; 40 pcs / 17.5 kg / 2.16 CUFT |

APPROVALS



ACCESSORIES

| IMAGES | CAT. NO. | DESCRIPTION | STD. PACK |
|--------|---------------|--|-----------|
| | CA501-1M | Din 32 Rail unslotted 1 meter | 50 |
| | CA501-1M-S | Din 32 Rail slotted 1 meter | 50 |
| | CA501-2M | Din 32 Rail unslotted 2 meter | 50 |
| | CA501-2M-S | Din 32 Rail slotted 2 meter | 50 |
| | CA701-1M | Din 35 Rail unslotted 1 meter | 50 |
| | CA701-2M | Din 35 Rail unslotted 2 meter | 50 |
| | CA701-2M-S | Din 35 Rail slotted 2 meter | 50 |
| | CA701-1M-S | Din 35 Rail slotted 1 meter | 50 |
| | CA701-15-1M | Din 35 Rail 15 deep unslotted 1 meter | 50 |
| | CA701-15-1M-S | Din 35 Rail 15 deep slotted 1 meter | 50 |
| | CA701-15-2M | Din 35 Rail 15 deep unslotted 2 meter | 50 |
| | CA701-15-2M-S | Din 35 Rail 15 deep slotted 2 meter | 50 |
| | CA202 | End Clamp in Polyamide suitable for Din 35 / Din 35-15 Rails | 25 |
| | CA702 | End Clamp in Polyamide 66 suitable for Din 32 / Din 35 / Din 35-15 Rails | 50 |
| | SCS0.5/3 | Electricians Screwdriver for slotted screws | 10 |

STANDARD USED FOR TESTING

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|----------------------|--|
| UL/cUL | UL 508 Listed UL 60950-1, UL 1310 Class 2 Power (only 5V, 12V w/o Class 2) Recognized ISA 12.12.01(Class 1, Division 2, Groups A, B, C and D) |
| TUV | EN 60950-1, CB scheme , EN 61558-1, EN 61558-2-17 (meet EN 60204) |
| CE | EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3 E N 61000-6-2, EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3 EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, L / N-FG Level 4 EN 61000-4-6 Level 3, EN 61000-4-8 |
| CCC | GB4943, GB9254, GB17625.1 |
| Vibration Resistance | meet IEC 60068-2-6 (Mounting by rail : 10-500 Hz, 2G, along X, Y, Z each Axis, 60 min for each Axis) |
| Shock Resistance | meet IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face) |

INPUT SPECIFICATIONS

| | |
|-------------|--------|
| Input Phase | Single |
|-------------|--------|

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| INPUT SPECIFICATIONS | |
|--|-----------|
| AC Input Voltage Range | 85 to 264 |
| DC Input Voltage Range | 90 to 375 |
| Rated Max. Input Voltage | 240 VAC |
| Rated Min. Input Voltage | 100 VAC |
| Line Frequency-Max. | 63 Hz |
| Line Frequency-Min. | 47 Hz |
| Max. Inrush Current (Vi: 115 VAC) | 20 A |
| Max. Inrush Current (Vi: 230 VAC) | 40 A |
| Rated Input Current -Typ. (Vi : 115 VAC) | 1060 mA |
| Rated Input Current -Typ. (Vi : 230 VAC) | 590 mA |
| Rated Input Current -Max. (Vi : 115 VAC) | 1500 mA |
| Power Dissipation (Vi: 230 VAC, Io norm) | 7.8 W |
| Leakage Current (Input-Output) | 0.25 mA |

| OUTPUT SPECIFICATIONS | |
|--|-----------------------------|
| Output Voltage | 48 VDC |
| Output Current | 1250 mA |
| Output Voltage Accuracy (Adjusted before shipment) | 0 to +1 % |
| Minimum Load | 0 % |
| Line Regulation | +/- 0.5 % |
| Load Regulation | +/- 0.5 % |
| Output Voltage Trim Range | 48 to 55 VDC |
| Rated Continuous Loading | 1.25A @48Vdc / 1.08A @55Vdc |
| Hold Up Time (Vi: 115VAC) | 20 msec |
| Hold Up Time (Vi: 230VAC) | 30 msec |
| Turn On Time | 1000 ms |
| Turn On Time With 7000 µF | 1500 msec |
| Rise Time | 150 ms |
| Rise Time With 7000 µF | 500 ms |
| Fall Time | 150 msec |
| Transient Recovery Time | 2 ms |
| Ripple and Noise (BW = 20MHz) | 50 mV |
| Power Back Immunity | 63 VDC |
| Capacitor Load | 7000 µF |
| DC ON Indicator Threshold at start up (Green LED) | 37.0 to 43.0 VDC |
| Efficiency | 89% |

| PIN CONFIGURATION | | | |
|-------------------|----------|-------------|--|
| PIN NO | POSITION | DESIGNATION | DESCRIPTION |
| 5 | OUT | - | Negative output terminal |
| 6 | IN | Ground | Ground this terminal to minimize high frequency emissions |
| 7 | IN | N | Input terminals (neutral conductor, no polarity at DC input) |
| 8 | IN | L | Input terminals (phase conductor, no polarity at DC input) |
| | OTHER | Vout ADJ. | Trimmer-potentiometer for Vout adjustment |
| | OTHER | DC ON | Operation indicator LED |

| PIN CONFIGURATION | | | |
|-------------------|----------|-------------|---|
| PIN NO | POSITION | DESIGNATION | DESCRIPTION |
| 1 | OUT | RDY | DC OK output for relay (not connect except 24V model) |
| 2 | OUT | + | Positive output terminal |
| 3 | OUT | + | Positive output terminal |
| 4 | OUT | - | Negative output terminal |