

Product Specification sheet

48C Plug-in Power Supply Unit 16V AC 1500mA T1615S/T

ELECTRICAL CHARACTERISTICS

| Load Current | Input | Input Exciting Current |
|--------------|--------------|------------------------|
| 0mA | 240V AC 50Hz | 85mA Max. |
| 1500mA | 240V AC 50Hz | 165mA Max. |

| Input Voltage | Load Current | Output Voltage |
|---------------|--------------|--------------------|
| 240V AC 50Hz | 0ma | 18.8V AC $\pm 5\%$ |
| | 1500mA | 16.0V AC $\pm 5\%$ |




| | |
|-----------------------|---|
| Operating Temperature | -10°C ~ +40°C (10 ~ 90% RH) |
| Storage Temperature | -20°C ~ +70°C (10 ~ 90% RH) |
| Exciting current | 85mA maximum with input of 240VAC 50Hz |
| Insulation Resistance | 100M Ω Minimum between primary and secondary and core of transformer @ 500VDC |
| Efficiency | 78.6% Minimum. |
| Hi-Pot Test * ** | There shall be no electrical damage after applying 3000V AC 50/60Hz between Primary and Secondary, Primary and Core and Primary and Case for 1 minute (detecting current set to 2ma). |
| Temperature Rise *** | With input of 240V AC 50Hz and output load of 1500mA, the temperature rise shall not exceed 45°C on the case surface and 75°C for the input coil. |
| Vibration Test | Vibrating frequency 10-55-10Hz. Direction X-Y-Z. Sweep time 30 minutes. No abnormal electrical or mechanical condition shall be found. |
| Audible Noise | With rated voltage input $\pm 10\%$, approximate sinewave I/P applied to the primary and with the secondary loaded, no audible noise shall be present at a distance of 1 metre from the transformer. |

* There shall be no breakdown applying 3600VAC for 2 seconds..

** Secondary circuit is connected to the transformer.

*** Measured by resistance method

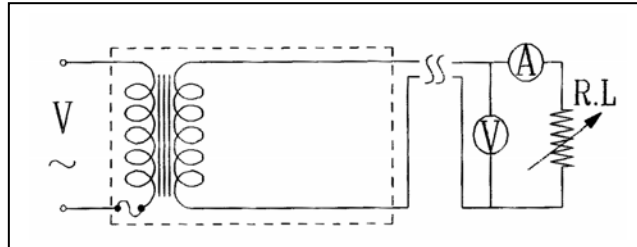
AUSTRALIAN COMPLIANCE

| | | |
|-------------------------------|--|---|
| Electrical Safety | Certificate NSW17582 |  |
| EMC |  | |
| Energy Efficiency (MEPS Mark) |  | |

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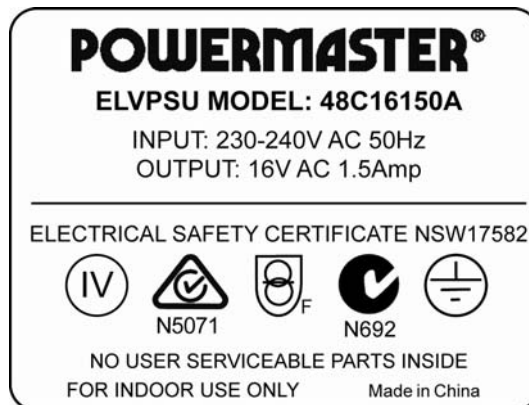
CIRCUIT DIAGRAM



MECHANICAL CHARACTERISTICS

| | | |
|--------------------|---|--------------------|
| Configuration | Wall-mount, (integral mains pins) | |
| Mains Pins | AS/NZS3112:2004 (SAA) 3 pins, insulated active & neutral | |
| Dimensions | 77.9(L) x 59(W) x 78.0(H)mm maximum | |
| Weight | 620g maximum | |
| Cooling | Natural Convection | |
| Thermal Fuse | 130°C 2A 250V | |
| Terminal Strength | AC Side | DC Side |
| | 10Kg for 60 seconds | 5Kg for 60 seconds |
| | No breakage shall occur after the completion of the test. | |
| Drop Test | No abnormal condition should be found after a free-fall from a height of 75cm onto a 1cm thick (minimum) wood surface. After a total of 6 drop tests (one on each plane) the adaptor shall pass the insulation resistance test (100MΩ minimum). | |
| Cord Bending Test | The cord shall withstand a total of 1000 40 cycle/minute swings from left to right at an angle of 120 degrees with a 300g weight attached. | |
| Strain Relief Test | The cord shall withstand a weight of 9.1Kg attached to the cord end for one minute minimum. There shall be no visible or electrical damage. | |

RATING PLATE



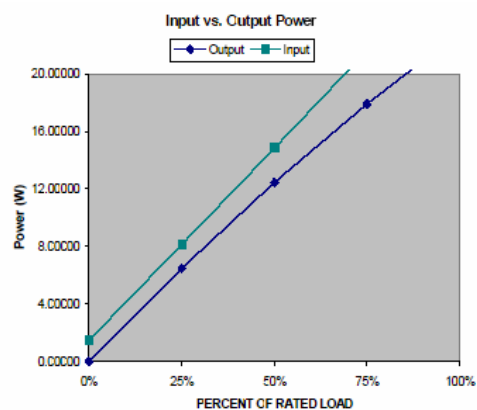
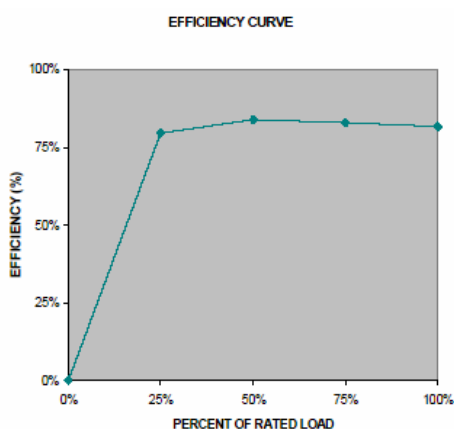
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MEPS REPORT

| MEPS Standard | Model | Nameplate AC Output Voltage | Nameplate AC Output Current | Output Power | Required Average Efficiency Active Mode | Efficiency Level -High Rating (IV) |
|--------------------|-----------|-----------------------------|-----------------------------|--------------|---|------------------------------------|
| AS/NZS46 65.1:2005 | 48C16150A | 16V | 1.5Amp | 24W | 78.60% | IV |

Sample of three pieces. Average data calculated at 230V 50Hz.

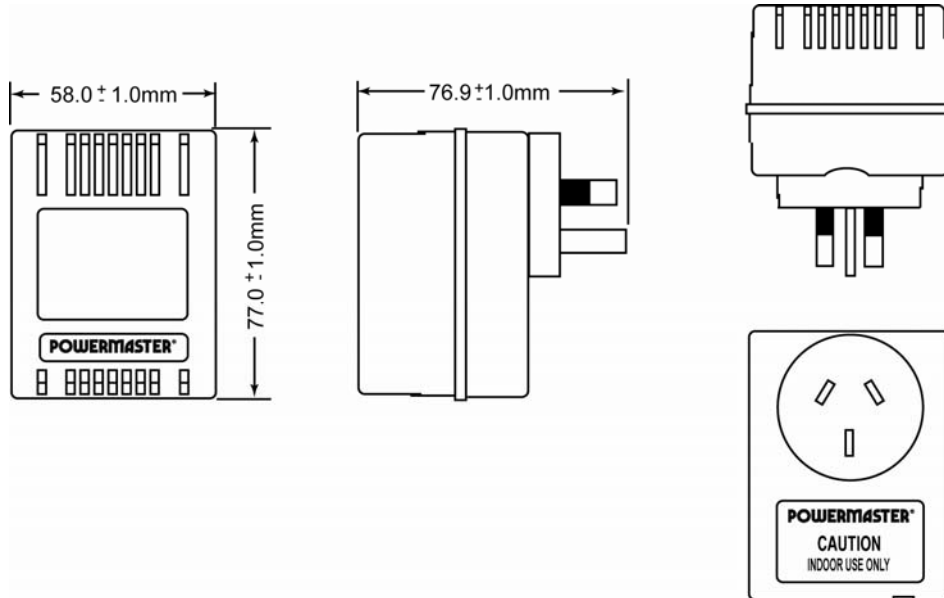


| Percent of Rated Load | Active Power Measurements | | | | No Load | Average | |
|------------------------------|---------------------------|----------|----------|---------|---------|---------|---------------|
| | 100% | 75% | 50% | 25% | 0% | | |
| Output Current (mA) | 1500 | 1125 | 750 | 375 | 0.00 | | |
| Output Voltage (V) | 15.2487 | 15.9070 | 16.6000 | 17.2757 | 17.9413 | | |
| Output Power (W) | 22.87300 | 17.89538 | 12.45000 | 6.47838 | 0.0000 | | |
| AC Input Voltage (V) | 230 | | | | | | |
| AC Input Power (W) | 27.9847 | 21.5877 | 14.8343 | 8.1420 | 1.4607 | | |
| Total Harmonic Distortion | 1.3000 | 1.3000 | 1.3000 | 1.3000 | 1.3000 | | 1.3000 |
| True Power Factor (Watts/VA) | 0.9786 | 0.9636 | 0.9199 | 0.7664 | 0.1946 | | 0.9071 |
| AC Input Frequency | 50 | 50 | 50 | 50 | 50 | | 50 |
| Power Consumed by UUT (W) | 5.11167 | 3.69229 | 2.38433 | 1.66363 | | | |
| Efficiency | 81.734% | 82.8965 | 83.927% | 79.567% | 0.0000% | | 82.03% |

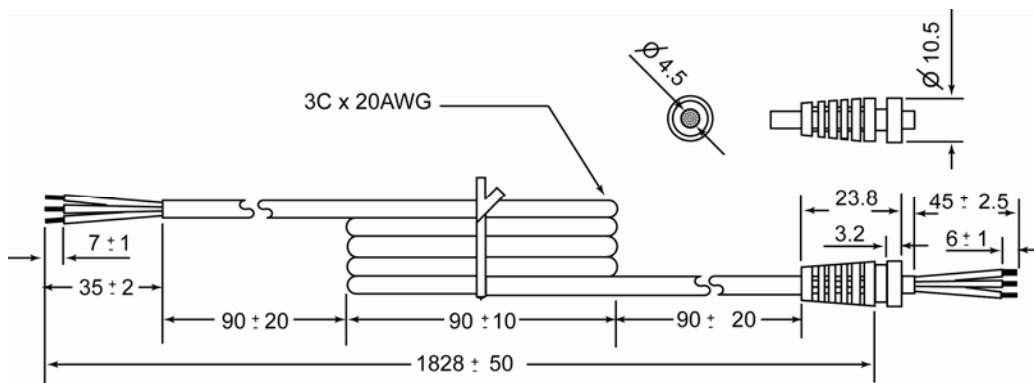
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PRODUCT OUTLINE DRAWING



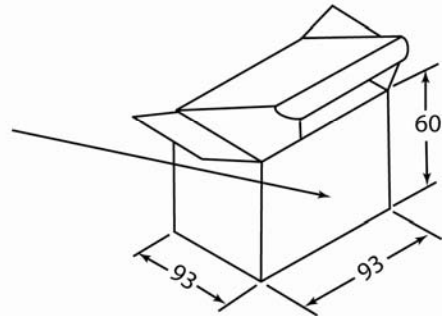
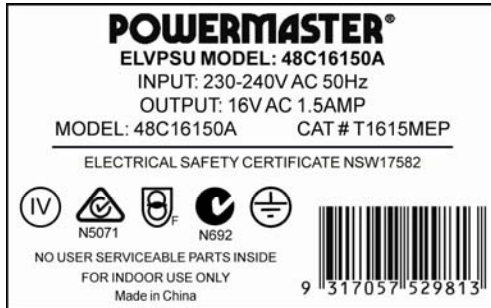
OUTPUT CORD DRAWING



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BOX LABEL & POSITIONING



MASTER CARTON LABEL & POSITIONING

