

## ELECTRICAL CHARACTERISTICS




| Load Current | Input        | Input Exciting Current |
|--------------|--------------|------------------------|
| 0mA          | 240V AC 50Hz | 95mA Max.              |
| 1000mA       | 240V AC 50Hz | 170mA Max.             |

| Input Voltage | Load Current | Output Voltage |
|---------------|--------------|----------------|
| 240V AC 50Hz  | 0ma          | 28.0V AC ±8%   |
|               | 1000mA       | 24.0V AC ±8%   |

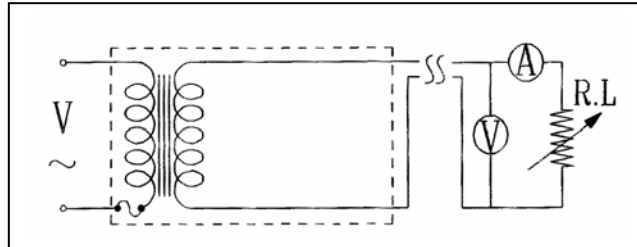
|                       |  |
|-----------------------|--|
| Operating Temperature | -10°C ~ +40°C (10 ~ 90% RH)  |
| Storage Temperature   | -20°C ~ +70°C (10 ~ 90% RH)  |
| Insulation Resistance | 100MΩ Minimum between primary and secondary and core of transformer @ 500VDC   |
| Efficiency            | 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 1000mA, 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 ±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

|                                      |  |  |
|--------------------------------------|--|--|
| <b>Electrical Safety</b>             | Certificate NSW17582   | <br>N5071 |
| <b>EMC</b>                           | <br>N692 |  |
| <b>Energy Efficiency (MEPS Mark)</b> | <br>IV   |  |

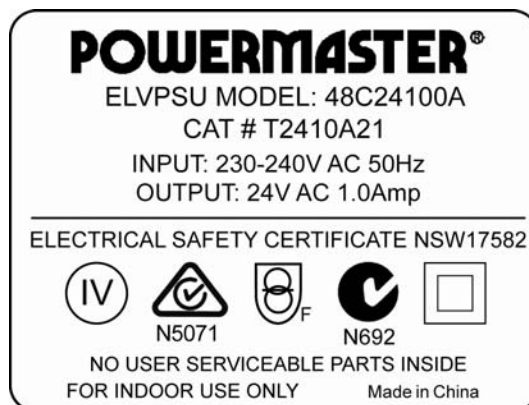
## CIRCUIT DIAGRAM



## MECHANICAL CHARACTERISTICS

|                    |   |                    |
|--------------------|---|--------------------|
| Configuration      | Wall-mount, (integral mains pins)   |                    |
| Mains Pins         | AS/NZS3112:2004 (SAA) 3 pins, insulated active & neutral  |                    |
| Dimensions         | 78(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.   |                    |

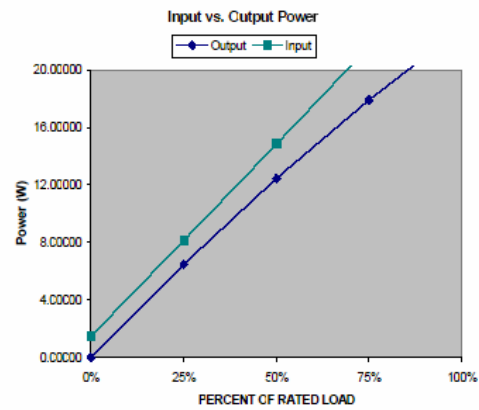
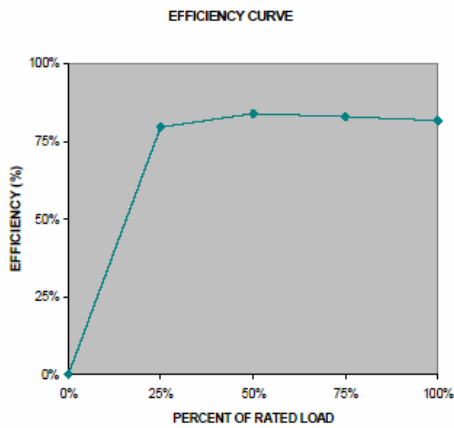
## RATING PLATE



## MEPS REPORT

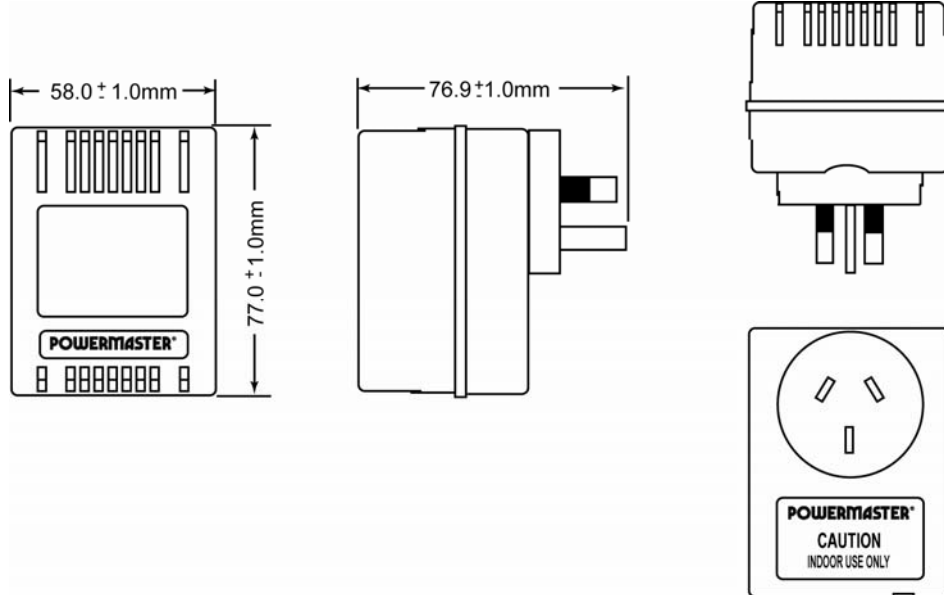
| MEPS Standard     | Model     | Nameplate AC Output Voltage | Nameplate AC Output Current | Output Power | Required Average Efficiency Active Mode | Efficiency Level -High Rating (IV) |
|-------------------|-----------|-----------------------------|-----------------------------|--------------|---|------------------------------------|
| AS/NZS4665.1:2005 | 48C24100A | 24V                         | 1.0Amp                      | 24W          | 82.03%                                  | IV                                 |

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

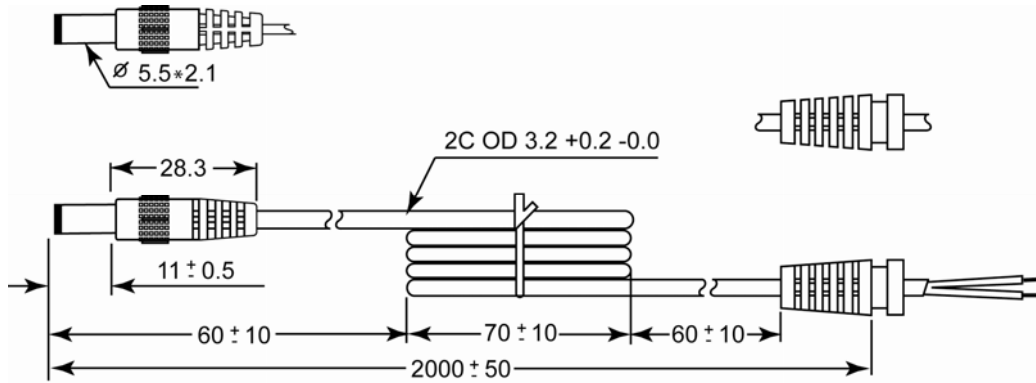


| Percent of Rated Load        | Active Power Measurements |          |          |         | No Load | Average |               |
|------------------------------|---------------------------|----------|----------|---------|---------|---------|---------------|
|                              | 100%                      | 75%      | 50%      | 25%     | 0%      |         |               |
| Output Current (mA)          | 1000                      | 750      | 500      | 250     | 0.00    |         |               |
| Output Voltage (V)           | 22.8800                   | 23.8000  | 24.7400  | 25.6700 | 26.6700 |         |               |
| Output Power (W)             | 22.88000                  | 17.85000 | 12.37000 | 6.41750 | 0.0000  |         |               |
| AC Input Voltage (V)         | 230                       |          |          |         |         |         |               |
| AC Input Power (W)           | 27.8400                   | 21.4800  | 15.0300  | 8.2850  | 1.4440  |         |               |
| Total Harmonic Distortion    | 1.3000                    | 1.3000   | 1.3000   | 1.3000  | 1.3000  |         | <b>1.3000</b> |
| True Power Factor (Watts/VA) | 0.6204                    | 0.4274   | 0.4089   | 0.3618  | 0.0546  |         | <b>0.4546</b> |
| AC Input Frequency           | 50                        | 50       | 50       | 50      | 50      |         | <b>50</b>     |
| Power Consumed by UUT (W)    | 4.96000                   | 3.63000  | 2.66000  | 1.86750 |         |         |               |
| Efficiency                   | 82.184%                   | 83.101%  | 83.302%  | 77.459% | 0.0000% |         | <b>81.26%</b> |

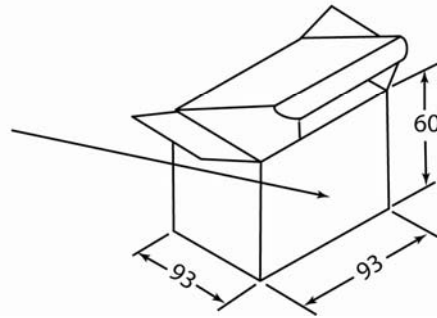
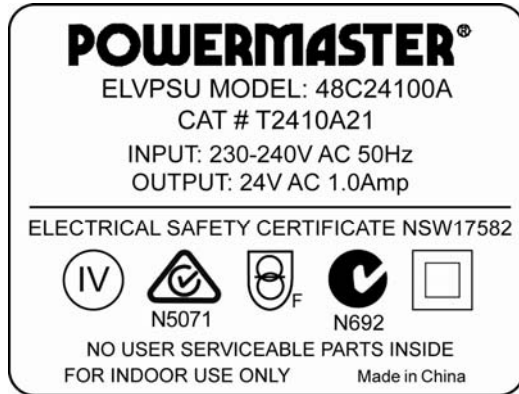
**PRODUCT OUTLINE DRAWING**



**OUTPUT CORD DRAWING**



**BOX LABEL & POSITIONING**



**MASTER CARTON LABEL & POSITIONING**

