

15G Series Plug-in Switch Mode Power Supply Unit

INPUT

| | MINIMUM | NORMAL | MAXIMUM |
|------------------------------------|--|---------------|---------|
| AC Input Voltage | 90V AC | 100 – 240V AC | 264V AC |
| AC Input Frequency | 47 Hz | 50 / 60 Hz | 63 Hz |
| AC Input Current – 230V AC (max) | | | 0.4A |
| Input Power (max) | | | 21.43W |
| AC Inrush Current* – 230V AC, 50Hz | No damage shall be incurred and the input fuse shall not blow. | | |
| Primary current protection | An internal fuse on the AC input line is provided. | | |
| Configuration | Wall mount, AU-pin, 2-conductors, <Active, Neutral> | | |

* At full-load, 25°C, cold start.

Power consumption at no load

| | |
|---------------------|----------|
| Input current | ≤25mA |
| Input 230V AC 50 Hz | 0.6W max |

OUTPUT

| MODEL | 3.3V | 5V | 6V | 7.5V | 9V | 12V | 15V | 18V |
|--------------------------|--|-------|-------|-------|-------|-------|-------|-------|
| Normal Output Voltage | 3.3V | 5V | 6V | 7.5V | 9V | 12V | 15V | 18.0V |
| Maximum Load Current | 3.0A | 3.0A | 2.5A | 2.0A | 1.66A | 1.5A | 1.2A | 1.0A |
| Minimum Load Current | 0.05A | 0.05A | 0.05A | 0.05A | 0.05A | 0.05A | 0.05A | 0.05A |
| Rated Output Power | 10.0W | 15.0W | 15.0W | 15.0W | 15.0W | 18.0W | 18.0W | 18.0W |
| Load Regulation | ±5% from 10% to 100% of rated load | | | | | | | |
| Ripple and Noise * | 100mV | | | | | | | |
| Over-current Protection | Adaptor protected with 200% of rated output. | | | | | | | |
| Over-voltage Protection | Zener clamp. | | | | | | | |
| Short-circuit Protection | The adaptor shall not be damaged by shorting the DC output to Ground with auto recovery functioning correctly. | | | | | | | |
| Hold-up Time (min) ** | 10mS | | | | | | | |
| Output over-shoot | <7% of nominal voltage value | | | | | | | |
| Temperature coefficient | Output voltage temperature coefficient ±0.05%/°C | | | | | | | |
| Turn-on Delay (max) | 2 Seconds | | | | | | | |
| Rise Time | Start-up rise time of <20mS to rise to within regulation limits | | | | | | | |
| Efficiency | 70% minimum at normal input voltage and full load. | | | | | | | |

* Voltage measured P-P at 20MHz and output parallel with 100nF ceramic & 10uF electrolytic capacitors to ground. Temperature at 25°C and nominal AC input voltage.

** At nominal AC voltage and full load.

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MECHANICAL

| | |
|-----------------|--------------------------------------|
| Dimensions | 82.0(L) x 43.5(W) x 30.0(D)mm. |
| Weight | 149g maximum. |
| Input Plug Type | Wall type, SAA 2-pin AS/NZS3112:2000 |
| Output Cord | Wire: 18AWG/2C, 2000mm. |
| Output Plug | DC Barrel Plug (with fork & groove) |

ENVIRONMENTAL

| | |
|-----------------------|--------------------------|
| Cooling | Natural convection. |
| Operating Temperature | 0°C to +35°C |
| Storage Temperature | -20°C to +80°C |
| Operating Humidity | 10 ~ 90 % Non-condensing |
| Storage Humidity | 10 ~ 90 % Non-condensing |







SAFETY

| | |
|--|---|
| Dielectric withstanding voltage test (Hi-pot test) input to output | 3000V AC 10mA for 1 minute.. |
| Insulation Resistance | 10MΩ at 500V DC between Primary Active, Neutral line and secondary. |
| Leakage Current | 0.25mA maximum at normal AC input voltage and frequency |

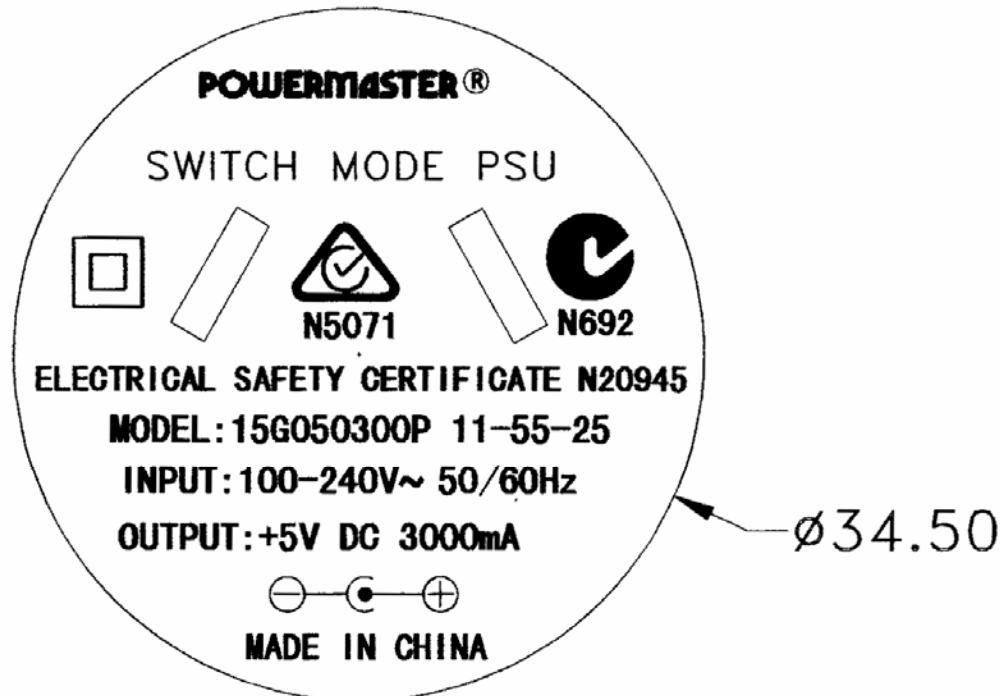
RELIABILITY

| | |
|----------------------------------|--|
| Mean Time Between Failure (MTBF) | The power supply is designed to have a MTBF of 50,000 hours. |
|----------------------------------|--|

COMPLIANCE

| | | | | | | | | |
|----------------------------------|---|---|---|------|---|---|-----|---|
| Electrical Safety | Certificate NSW20945 | | | | | | |  |
| EMC |  | | | | | | | |
| Energy Efficiency (MEPS Mark) | 3.3V | 5V | 6V | 7.5V | 9V | 12V | 15V | 18V |
| | |  |  | |  |  | | |

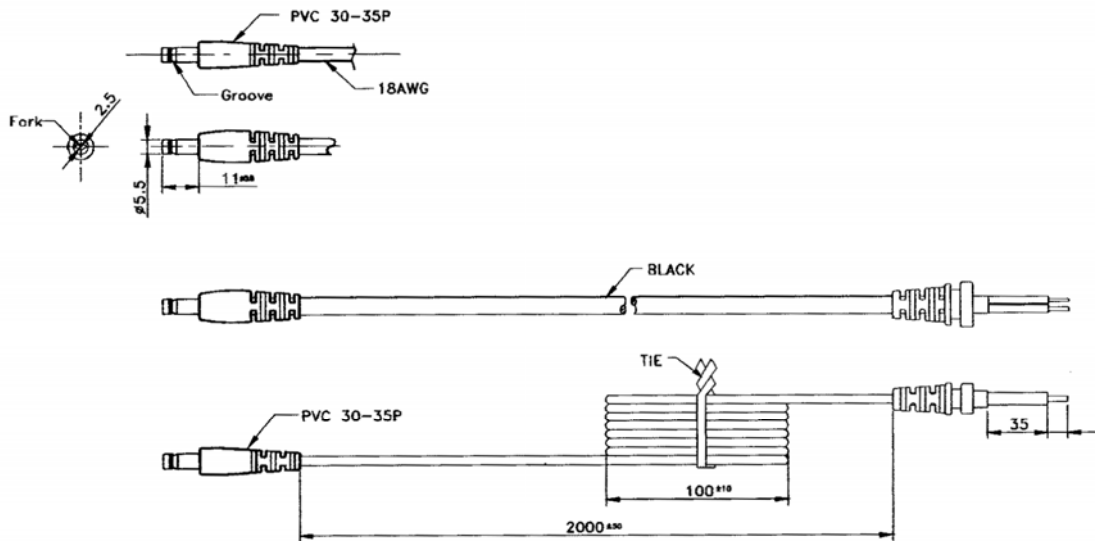
RATING PLATE



- Note:
1. Material: Polyester+PET; Coating: 0.25 +/- 0.05mm
 2. White characters; Black background
 3. Lead free

DC OUTPUT CORD DRAWING

DIMENSION OF OUTPUT PLUG & DC CORD (Unit: mm)

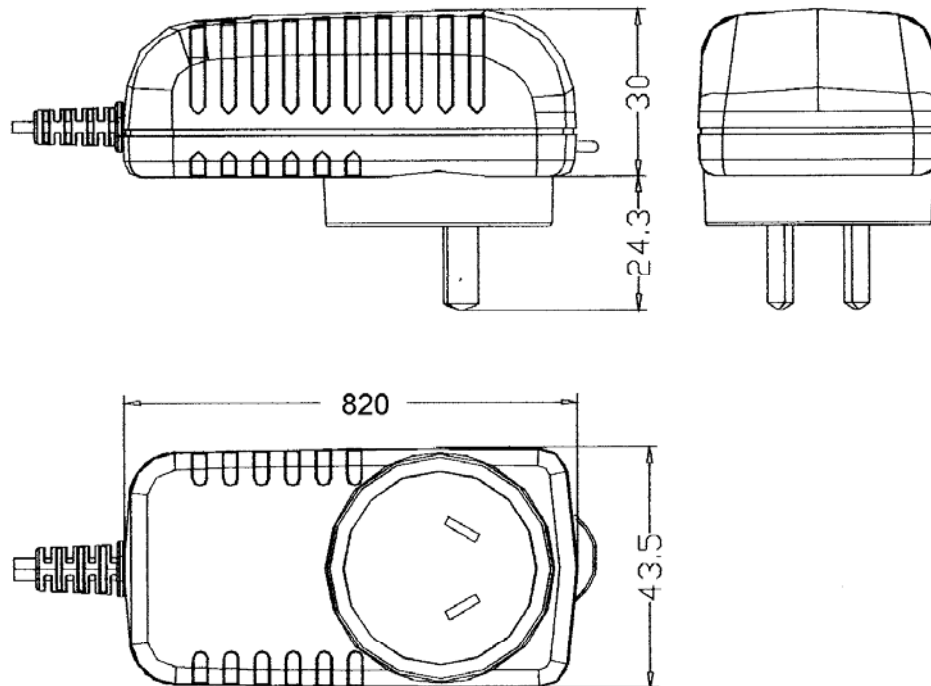


NOTE: (unit:mm)

- 1).WIRE TYPE:VW-1SC 1185 80°C Ø3.5 300V L=2000mm 2C 18AWG BLACK
- 2).WIRE JACKET MATERIAL:PVC (94V-0)

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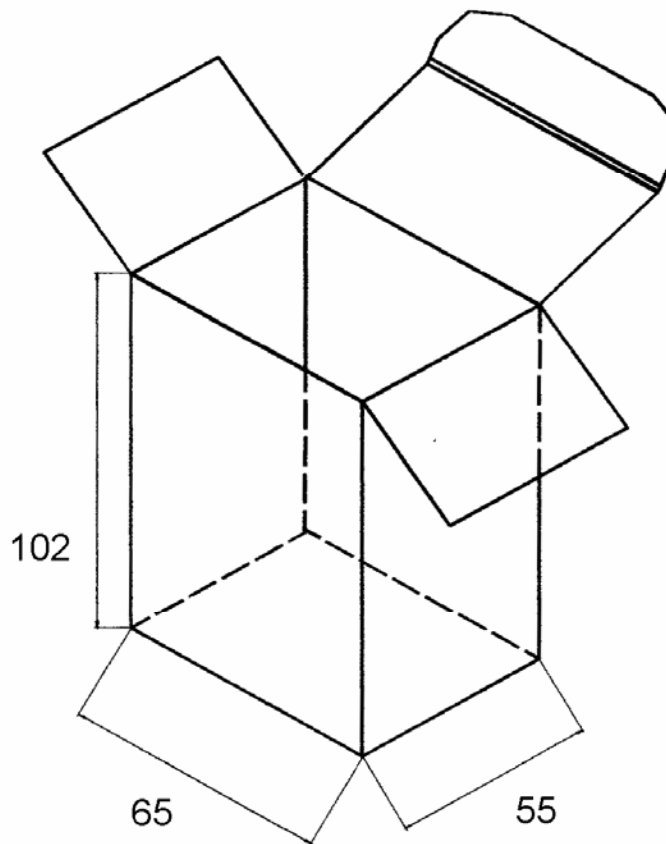
PRODUCT OUTLINE DRAWING



- Note:
1. Case & chassis material: PPHOX (UL94V-1) Black
 2. AC Pin material: Brass (NI plated)
 3. Lead free

PACKING DRAWING

BOX DRAWING: (Unit: mm)



Material: 400g (lead free)