

SPECIFICATION

High Quality Desktop Power Adapter

**Universal AC Input
60W 24VDC 2.5A Output**

P/N: A240025DV1

Specification Approval**

This specification (total 9 pages including cover page) is approved in it's entirety by:

Company Name

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1. GENERAL DESCRIPTION

This specification defines the input, output, performance characteristics, environment, noise and safety requirements for a 60 watts switching type power supply. The power supply input/output are full range AC input and +24V DC with 60 watts maximum output.

2. INPUT

2.1 AC INPUT VOLTAGE

| MINIMUM | NOMINAL | MAXIMUM |
|---------|--------------|---------|
| 90 VAC | 100 –240 VAC | 264 VAC |

2.2 AC INPUT FREQUENCY

| MINIMUM | NOMINAL | MAXIMUM |
|---------|------------|---------|
| 47 Hz | 50 / 60 Hz | 63 Hz |

2.3 AC INPUT CURRENT: 1.5A Max. nominal input voltage.

2.4 AC INRUSH CURRENT: At full load, 25 degree C, cold start, nominal input voltage:
No damage shall occur and input fuse shall not blow up.

2.5 CONFIGURATION: Desk-type, 3 conductors, < Live, Neutral, F.G >

3. OUTPUT

- 3.1 DC OUTPUT VOLTAGE: +24 V
- 3.2 MINIMUM LOAD CURRENT: 0 A
- 3.3 NOMINAL LOAD CURRENT: 2.5 A
- 3.4 NOMINAL OUTPUT POWER: 60 W
- 3.5 TOTAL OUTPUT REGULATION: $\pm 5\%$
- 3.6 LINE REGULATION $\pm 2\%$ At nominal input voltage and full load
- 3.7 RIPPLE AND NOISE: 240 mVp-p maximum. Noise test frequency at 20 MHz bandwidth each output bypass a 0.1uF & 10uF capacitors to ground.(connect parallel)
- 3.8 OUTPUT VOLTAGE REGULATION: The total output voltage regulation shall be $\pm 5\%$ including the effects of line voltage variations, load current, ripple and noise, and the AC component of the load current. The effect of dynamic load changes is not included in this limit.
- 3.9 AVERAGE EFFICIENCY:
85% minimum @ 115VAC/230VAC input voltage and meet efficiency level:IV
- 3.10 TURN-ON DELAY: 2 seconds maximum.

3.11 PROTECTION

OVER-CURRENT PROTECTION: $\leq 5A$ with auto-recovery function

OVER-VOLTAGE PROTECTION: Protecting with ZENER clamp

SHORT-CIRCUIT PROTECTION: The power supply shall not be damaged by short between DC output and DC ground.

3.12 POWER CONSUMPTION ON POWER SAVING MODE:

Unless otherwise specification output load must set at CC mode.

LOAD IS "0" VIN=230V(50Hz) Pmax. $\leq 0.5W$

4. MECHANICAL

4.1 DIMENSION

122.3 (L) *57 (W) *35.1 (H) mm maximum

4.2 WEIGHT

250g maximum

4.3 OUTPUT CORD

WIRE: 18AWG/2C SPT-1 , 1500mm

5. ENVIRONMENTAL

5.1 OPERATING TEMPERATURE

0 °C TO 40 °C

5.2 STORAGE TEMPERATURE

-20 °C TO +60 °C

5.3 OPERATING HUMIDITY

20 ~ 85 % RH. NON-CONDENSING

5.4 STORAGE HUMIDITY

5 ~ 95 % RH. NON-CONDENSING

5.5 VIBRATION TEST REQUIREMENT

(Non-operating, with packing) Reference to IEC. 68-2-6

| Test conditions | | Acceptance criteria |
|-----------------|---------------------------------|--|
| 1.Frequency | 10 ~ 300 Hz | NOMINAL functional test should be satisfied after the test |
| 2.Sweep | 2hours. For each axis (X, Y, Z) | |
| 3.Acceleration | 2G | |
| 4.Displacement | 0.4 mm | |

6. SAFETY

6.1 DIELECTRIC WITHSTANDING VOLTAGE TEST (HI-POT TEST)

Primary To Secondary: 1500VAC 10mA 1 minute or 2121VDC 10mA 1 minute.

Primary To Ground: 1500VAC 10mA 1 minute or 2121VDC 10mA 1 minute

6.2 GND CONTINUITY TEST

Primary inlet F.G to Secondary GND: 25A for 3 seconds, 100m Ω maximum

6.3 LEAKAGE CURRENT

3.5mA maximum, at nominal AC input voltage and frequency

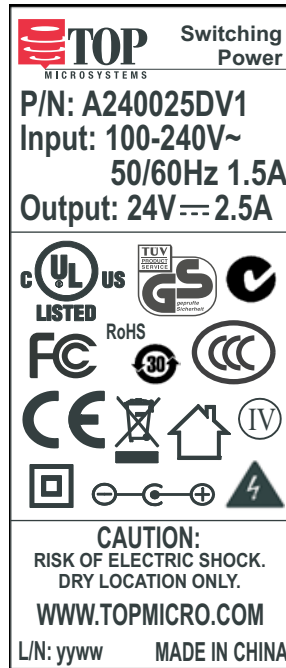
6.4 SAFETY STANDARDS

Designed to meet UL/C-UL(UL60950-1), TUV-GS(EN60950-1), T-license(BS EN60950-1), CCC(GB4943),SAA(AS/NZS60950-1), EK-MARK(K60950)

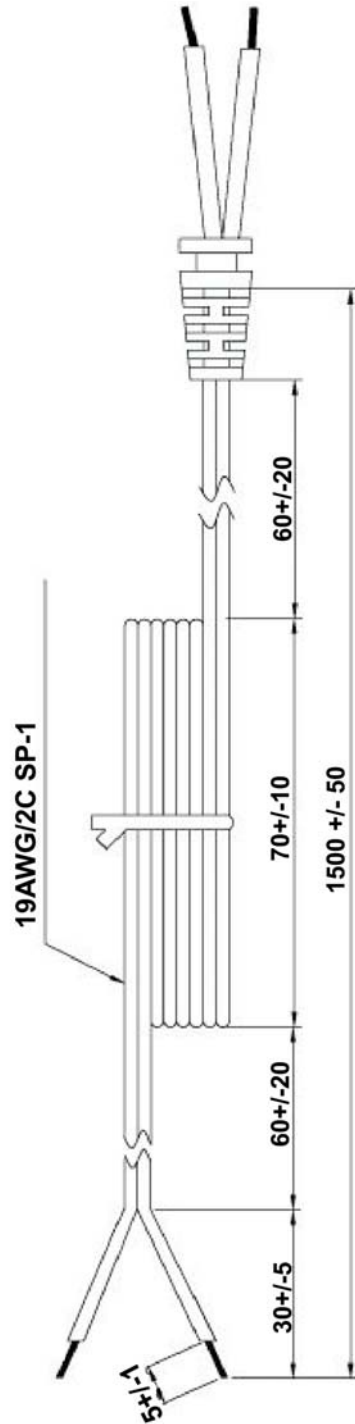
6.5 EMI STANDARDS

Designed to meet FCC (PART 15 CLASS B), CE(EN55022), C-TICK, GB9254, GB17625.1

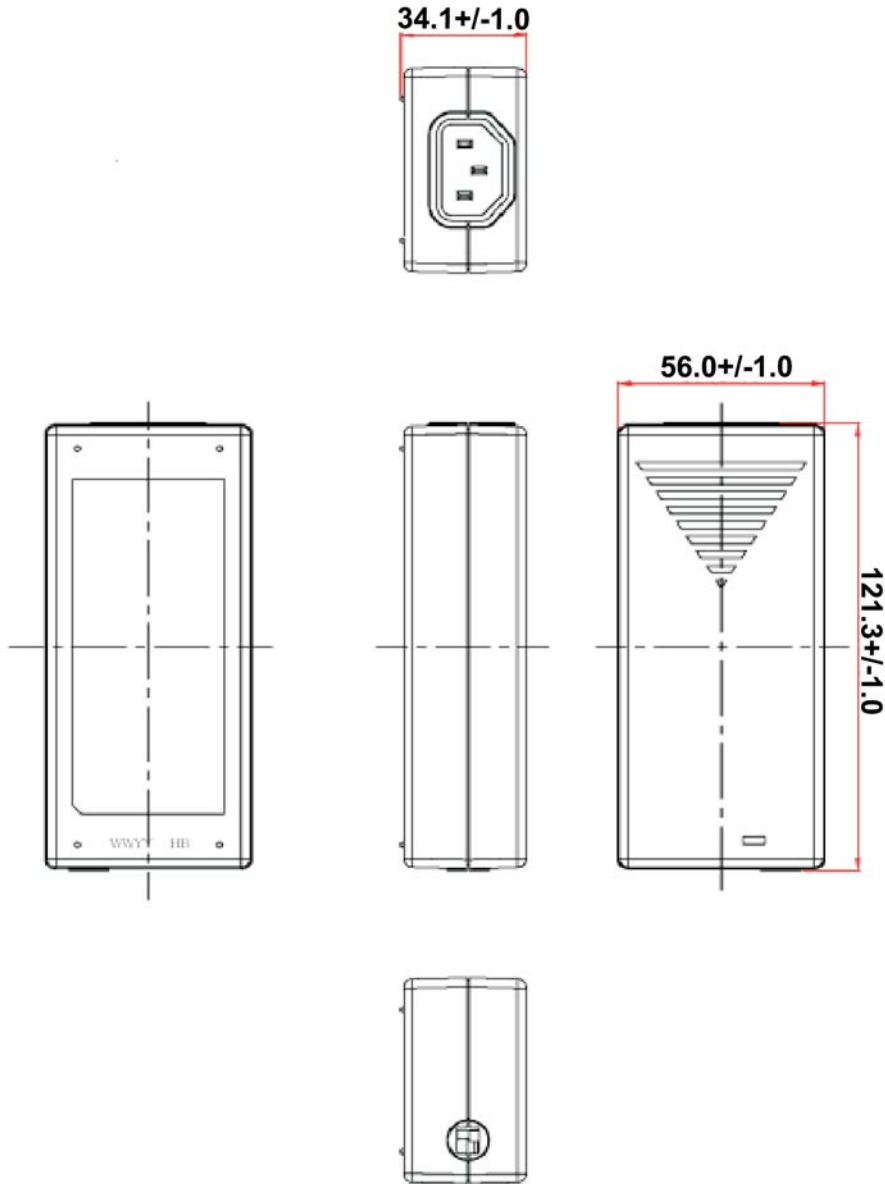
7. LABEL



8. DC OUTPUT CORD



9. PRODUCT OUTLINE



10. PACKING

