

# SPECIFICATION

## Switching Desktop Power Adapter

Universal AC Input  
60W 12VDC 5A Output



**P/N: A120050DV1**

**\*\*Specification Approval\*\***

This specification (total 8 pages including cover page) is approved in it's entirety by:

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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 +12VDC 60W 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

115VAC VOLTAGE	1.5A maximum
230VAC VOLTAGE	1.0A maximum

### 2-4 CONFIGURATION

Desk-type, 3 Conductors, < Live, Neutral ,FG>

### 2-5 POWER CONSUMPTION ON POWER SAVING MODE

LOAD	INPUT CONDITION	INPUT POWER REQUIREMENT
0 A	230 VAC 50Hz	0.3W maximum
0 A	115 VAC 60HZ	0.3W maximum

### 3. OUTPUT

3.1	DC OUTPUT VOLTAGE	+12V
3.2	NOMINAL LOAD CURRENT	5.0A
3.3	NOMINAL OUTPUT POWER	60W
3.4	TOTAL OUTPUT REGULATION	±5%
3.5	RIPPLE AND NOISE	120 mVp-p maximum @ at room temperature Noise test frequency at 20 MHz bandwidth Each output by pass a 0.1uF & 10uF capacitors to ground.(connect parallel)
3.6	LINE REGULATION	+/-2% At nominal input voltage and full load
3.7	OUTPUT VOLTAGE REGULATION	The total output voltage regulation shall be ± 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
3.8	EFFICIENCY	87% minimum At 115VAC/230VAC input voltage and meet efficiency
3.9	HOLD-UP TIME	>5ms at normal input voltage
3.10	POWER FACTOR CORRECTION	≥ 0.3 INPUT VOLTAGE: NOMINAL INPUT VOLTAGE OUPT LOAD: MAX LOAD
3.11	PROTECTION	
	OVER-CURRENT PROTECTION	≤ 8.0A WITH AUTO-RECOVERY FUNCTION

## 4. MECHANICAL

### 4.1 DIMENSION

148(L)\*58(W)\*37.8(H)mm

### 4.2 WEIGHT

320g maximum

### 4.3 INPUT PLUG TYPE

IEC320 C14 AC PIN

### 4.4 OUTPUT CORD

WIRE: 16AWG/1C+SH 1571, 1500mm

PLUG: JACK PLUG 5.5\*2.1\*10mm

## 5. ENVIRONMENTAL

### 5.1 COOLING

Cooling shall be with natural convection cooling.

### 5.2 OPERATING TEMPERATURE

0°C TO 40°C

### 5.3 STORAGE TEMPERATURE

-20°C TO +60°C

### 5.4 OPERATING HUMIDITY

20 ~ 85% RH. NON-CONDENSING

### 5.5 STORAGE HUMIDITY

5 ~ 95% RH, NON-CONDENSING

### 5.6 VIBRATION TEST

(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 1minute or 2121VDC 10mA 1minute

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

### 6.2 LEAKAGE CURRENT

3.5mA maximum, at nominal AC input voltage and frequency

### 6.3 SAFETY STANDARDS

UL/CUL(UL60950-1), TUV-GS(EN60950-1),

T-LICENSE(BS EN60950-1), SAA(AS/NZS60950),

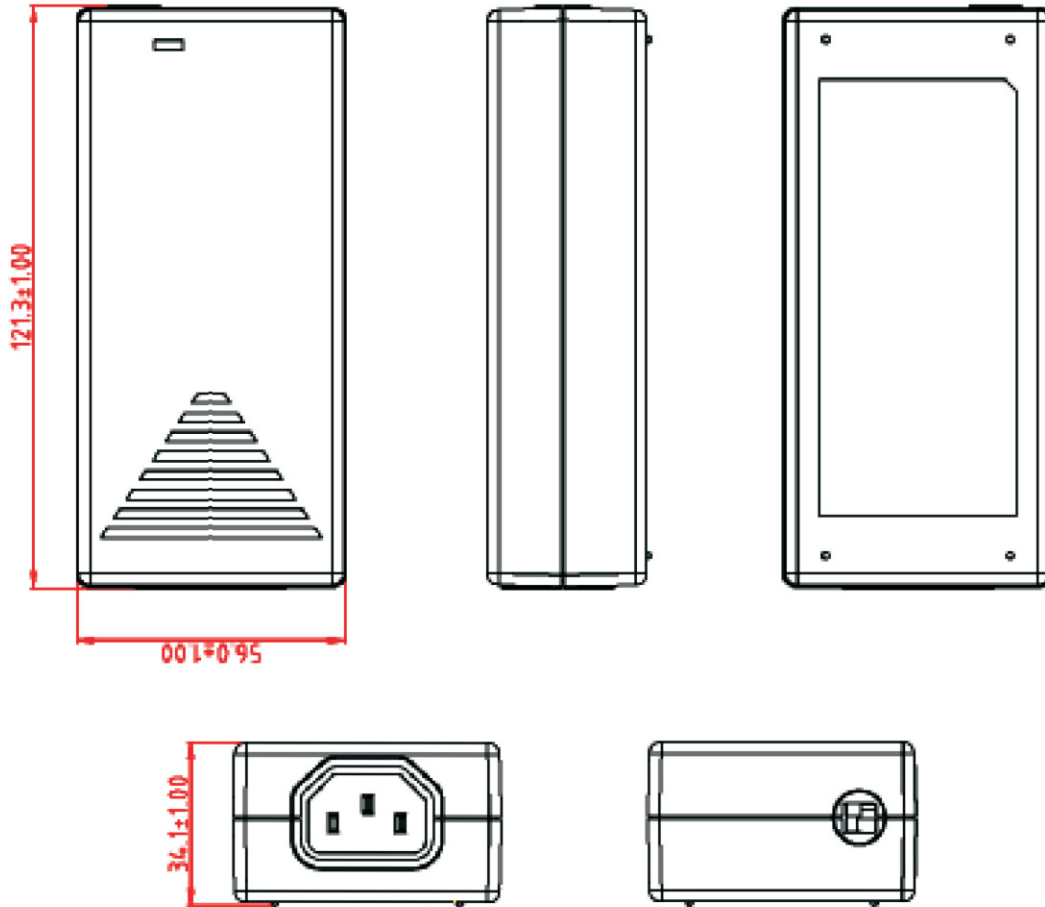
CCC(GB4943)

### 6.4 EMI STANDARDS

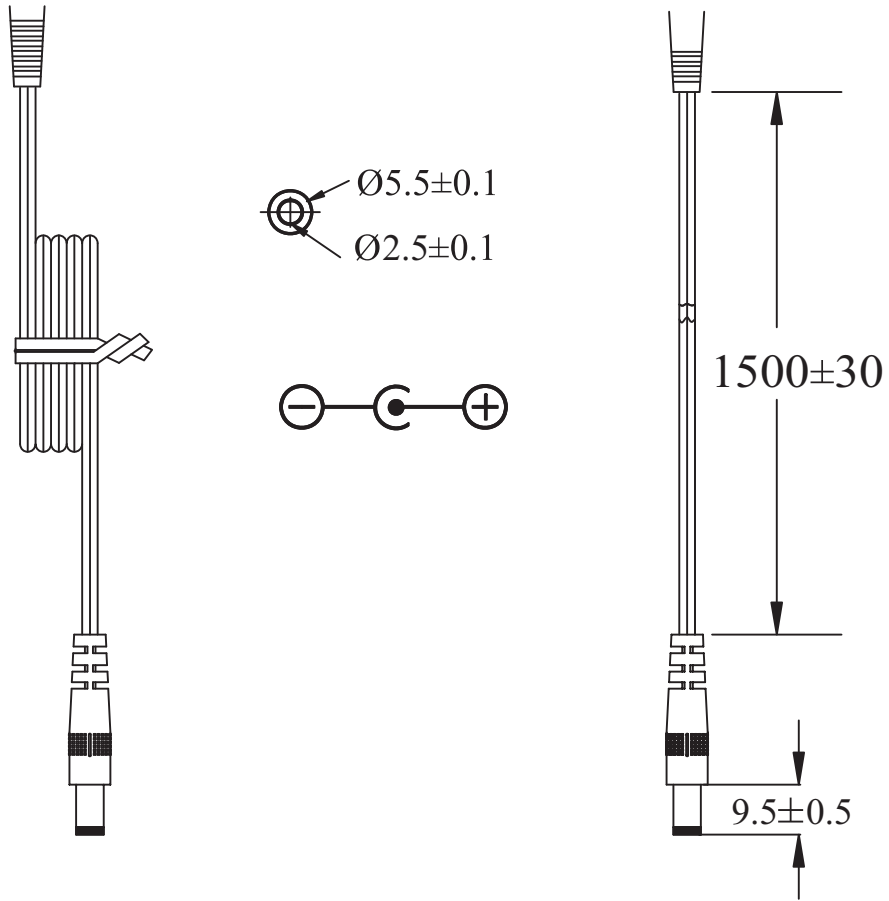
FCC(PART 15, CLASS B), CE(EN55022), C-TICK,

GB9254, GB17625.1













### 7. DRAWING



### 8. DC CORD



### 9. LABEL

		<b>Switching Power</b>
P/N: A120050DV1		
Input: 100-240V ~ 50-60Hz 1.5A		
Output: 12V $\overline{=}$ 5.0A		
 JET	入力: AC100V-50-60Hz 0.5A 出力: DC12V $\overline{=}$ 5.0A	
		
<b>LISTED</b> E176899	LPS RoHS	
		
		
<b>CAUTION: For I.T.E. Use Only. Risk of Shock. Do Not Open.</b>		
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