

# SPECIFICATION

**Desktop Power Adaptor  
Universal AC Input  
30W 12VDC Output**

**P/N: A120025EN6**

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

This specification (total 7 pages including cover page) in its entirety is approved by:

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Company Name

Print Name

Signature

Date

Specification subject to change without prior notice.



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## 1. Scope

A120025EN6 is a universal switching mode power supply, operating at input voltage 90VAC to 264VAC and output voltage of 12VDC with 2.5A Max. load.

## 2. Electric Characteristics

### 2.1 Input

No	ITEM	SPECIFICATION
1.	Nominal Input Voltage	100V-240VAC
	Tolerated Input Voltage	90V-264VAC
2.	Nominal Frequency Rating	50-60Hz
	Tolerated Frequency Rating	47-63Hz
3.	Input Current Rating	800mA RMS Max.
	Inrush Current	50A Max. at 115vac cold start
		100A Max. at 230vac cold start
4.	Leakage Current	3.5mA
	Efficiency	80.6% Min.      CEC Compliant
5.	Input Power (no-load)	<0.3W              CEC Compliant

**2.2 Output:**

ITEM	SPECIFICATION	
Output Voltage	12VDC	
Output Max. Current	2.5A	
Output Min. Current	0A	
Line Regulation	±1%	
Output Voltage Tolerance	±5%	
Over Voltage Protection	24VDC Max. (output shut down)	
Short Circuit Protection	Output shut down and auto restart	
Ripple Voltage	120mV(p-p)	Input: 100-240VAC
		Output: full load

**2.3 Hi-Pot Specification**

Input to output: 1500VAC or 2121VDC 10mA 1 minute.

**2.4 Insulation Resistance:**

Input to output: 500vdc to test the input to output, resistance not to be less 100M ohm

**2.5 Safety Approvals: UL/cUL, GS, CE, CCC****2.6 EMI Standard: FCC Part 15B, EN55022B****2.7 PB-free Standard: RoHS Compliant****3. Mechanical Characteristics****3.1 AC Plug: Inlet IEC320-C6****3.2 DC Cord:**

**Bending Test:** Life 1000 times 100% guarantee. Swings 120 from

Left to right loading weight 200g, 40 cycle/minute.

**Pull Test:** DC cord and plug ,weight 6kg for 1 minute.

**3.4 Weight:** 240g

**3.5 Case Size:** (L)99 X (W)51X (H) 31.7mm

**3.6 Temperature**

**Operating:** 0 to 40

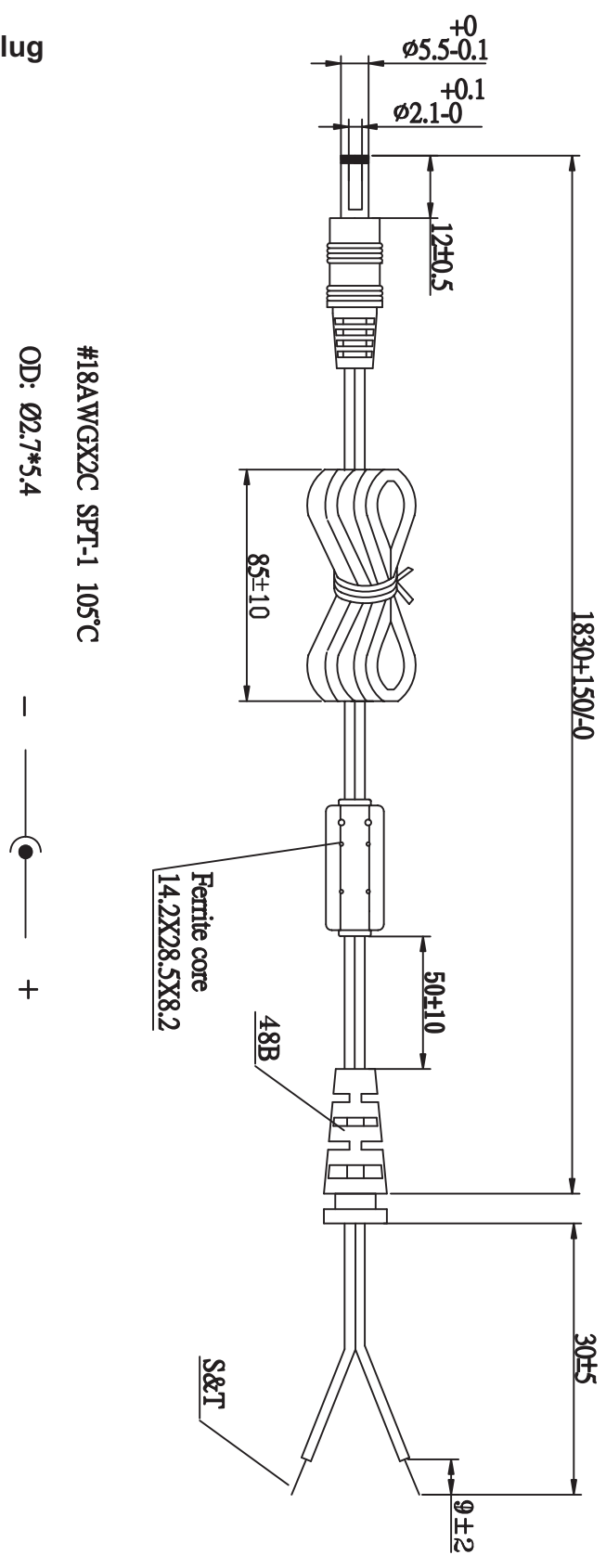
**Storage :** -10 to 70

**3.7 Humidity**

**Operating:** 20% to 80%.

**Storage:** 10% to 90%

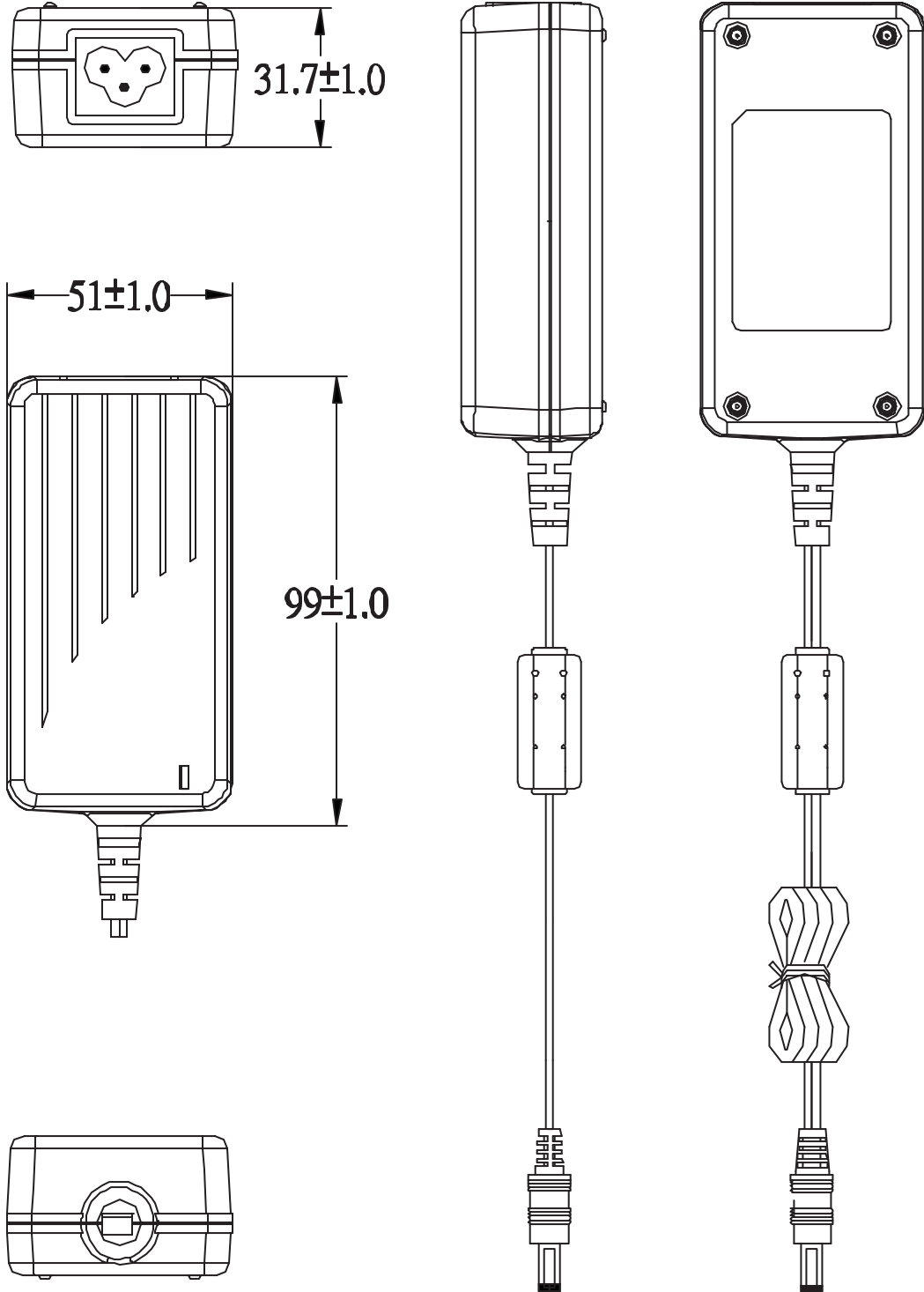
### 4. DC Cable and Plug



#18AWGX2C SPT-1 105°C

OD:  $\phi 2.7 \pm 0.4$

### 5. Mechanical Drawing



### 6. Label

