



❧ **SPECIFICATION** ❧



FOR YOUR APPROVAL

CUSTOMER *Nerival Oy*

DESCRIPTION : *Switching Adaptor*

PART NO : *SIE120A-2405000*

MODEL NO : *SF120A-24005008*

DESIGNED NO : *10302-04A-100196A*

DATE : *August 7, 2025*

VERSION : *REV 0.1*

APPROVED SIGNATURES



SHINING FAIR ENTERPRISES CO., LTD.

PART NO : <i>SIE120A-24005000</i>	TEXT SPECIFICATION SWITCHING POWER SUPPLY
DESIGNED NO : <i>10302-04A-100196A</i>	
TYPE : <i>SIE120A</i>	

1. GENERAL SPECIFICATIONS

1-1 ENVIRONMENTAL:

	<u>NOMINAL</u>	<u>TOLERANCE</u>
Operation Temperature	25°C	0°C ~ +40°C
Storage Temperature		-20°C ~ +70°C

2. ELECTRICAL SPECIFICATIONS

2-1 RATING:

(A) INPUT VOLTAGE

<u>NOMINAL</u>	<u>TOLERANCE</u>
100 / 240 VAC	90 – 264 VAC

(B) FREQUENCY

<u>NOMINAL</u>	<u>TOLERANCE</u>
50 / 60 Hz	47 / 63 Hz

2-2 INPUT CURRENT : 2.0Amax. @ 100-240Vac input & Full load.

2-3 INRUSH CURRENT: Inrush current will be less 40A max cold start at input voltage 264Vac.

2-4 HOLD-UP TIME :

10mS min. @ Full load & 115Vac/60Hz input turn off at worst case.

20mS min. @ Full load & 230Vac/50Hz input turn off at worst case

2-5 EFFICIENCY : The average efficiency of power supply will be higher than 88% at input voltage range with average value. Meet CEC Level VI

2-6 LEAKAGE CURRENT : 0.25mAmax. at 264Vac / 50Hz

2-7 HI-POT TEST : Between primary to secondary: 3000Vac 50Hz for one second , Test current will be less 10mA

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2-8 INPUT WATTAGE AT OUTPUT NO-LOAD CONDITION:

Less than 0.21W at rate input voltage & frequency

2-9 OUTPUT VOLTAGE AND CURRENT

V-out			I-out	
Minimum	Type	Maximum	Minimum	Maximum
22.8VDC	24VDC	25.2VDC	0	5A

2-10 RIPPLE & NOISE LIMIT : 200mV p-p, Measurement is done by 20MHz bandwidth oscilloscope and the output paralleled a 0.1uF ceramic capacitor and a 47uF electrolysis capacitor. (test under the condition of rated input and rated output) .

2-11 OVER SHOOT : 10% Max. When power supply at turn on or turn off.

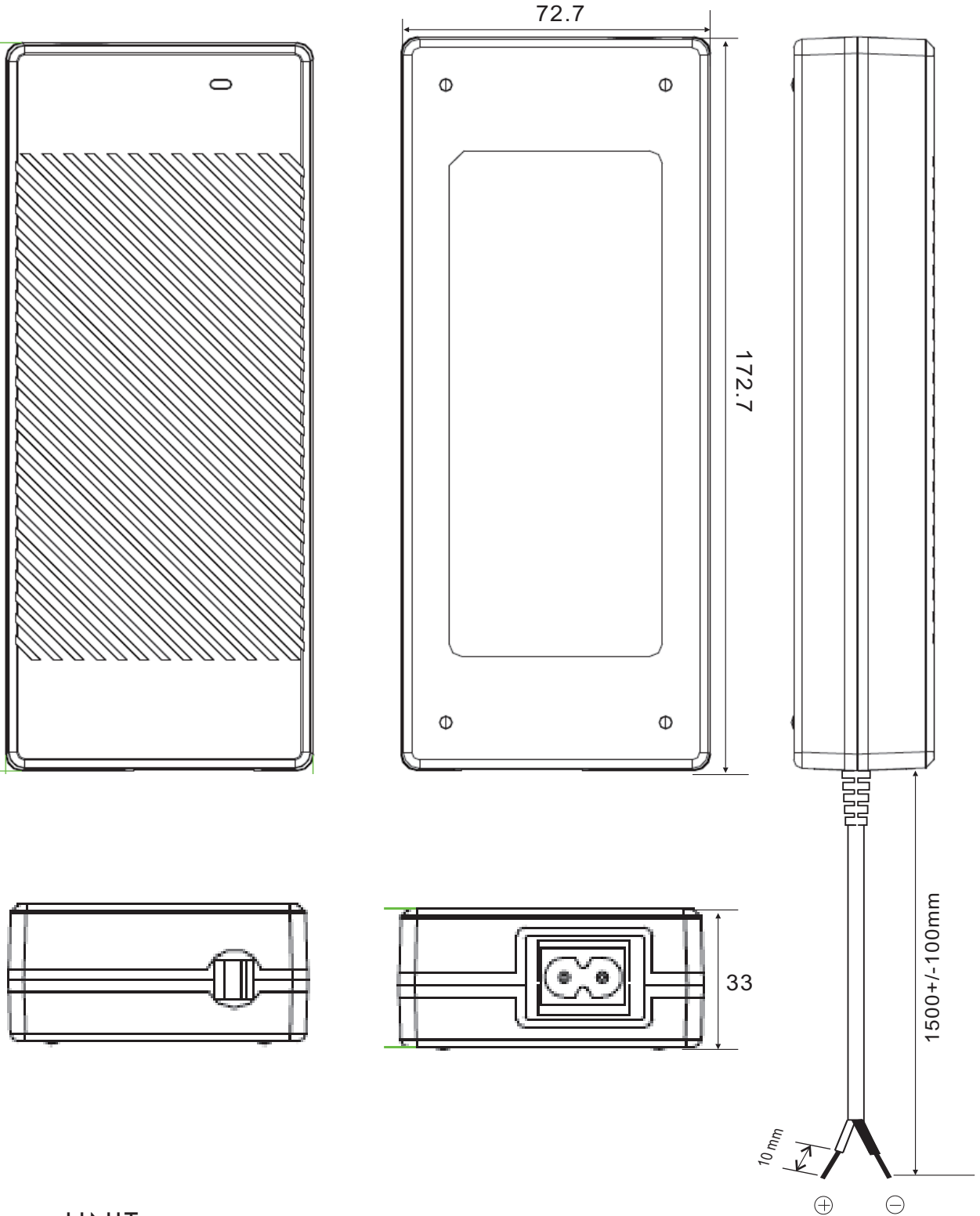
2-12 PROTECTION

- a. SCP : The input power shall decrease when the output rail short, the power supply shall no damage, and shall be self-recovery when the fault condition is removed
- b. OCP : Over Current Point Limited $I < 10A(100-240Vac)$
 The output shall hiccup when the over currents applied to the output rail, and shall be self-recovery when the fault condition is removed

2-13 Rise Time: 20mS max. @ Rated load.

2-14 Regulatory Standards: EN62368/ UL62368

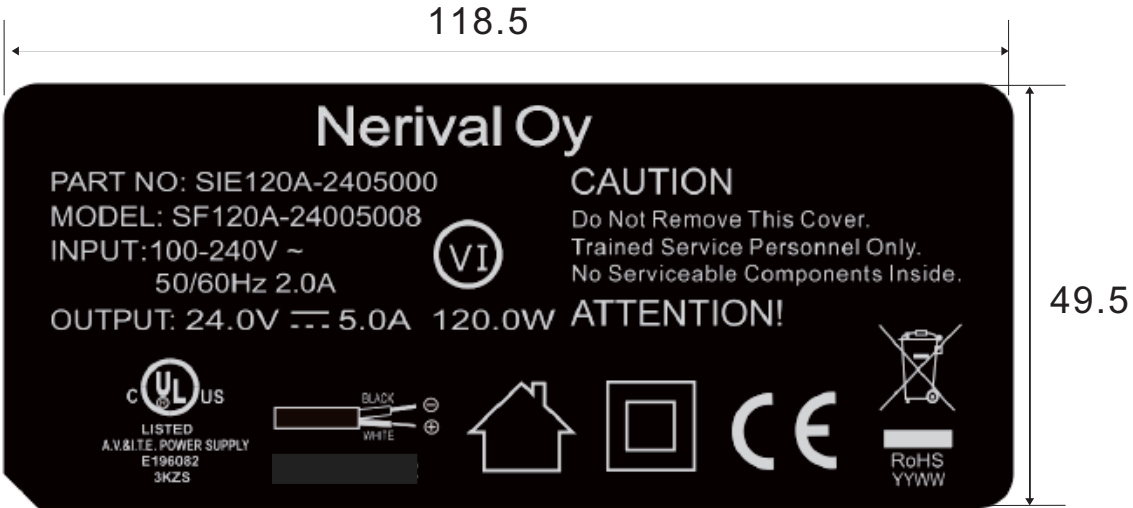
PART NO	PAGE
SIE120A-2405000	P5 OF P7



UNIT : mm

PART NO	PAGE
SIE120A-2405000	P6 OF P7

NAME PLATE LIST



UNIT : mm

PART NO	PAGE
SIE120A-2405000	P7 OF P7

1) AC Cable



NOTE:

- 1. IEC320/C7 (for IEC/C8 socket)
- 2. Euro 250V 2.5A

2) Metal Holder (# 10304-09A-103309)

