

CUSTOMER

SPECIFICATION

MODEL NO. : **CPS042150200V**

DOCUMENT NO. :

CUSTOMER NO. :

DATE : **2019/1/28**

DESCRIPTION: **SPS, 100-240VAC 50Hz-60Hz/15VDC 2.0A**

SAFETY STANDARD:

PLEASE RETURN TO US COPY OF "SPECIFICATION FOR APPROVAL" WITH YOUR APPROVED SIGNATURES.

	" √ "	CUSTOMER' S SIGNATURE	NOTE
FULL APPROVED			
CONDITIONAL APPROVED			
REJECTED			

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Change List

MODEL NO. : [CPS042150200V](#)


Date	Changed contents	Rev.	Prepared by
19/1/28	Original Release	00	

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1.0 SCOPE

1.1 DESCRIPTION

This document introduces the electrical, mechanical and environmental specifications of a switching power supply.

2.0 INPUT CHARACTERISTICS

2.1 INPUT VOLTAGE & FREQUENCY

Input Voltage	Minimum	Nominal	Maximum
Input Voltage	90Vac	100-240Vac	264Vac
Input Frequency	47Hz	50Hz/60Hz	63Hz

2.2 INPUT CURRENT

Input current is 1.2Arms max under full-load and 100Vac input voltage conditions.

2.3 INRUSH CURRENT

Inrush current should be lower than 80A Max under cold start and at 230Vac input voltage.

2.4 POWER CONSUMPTION

The static loss is less than 0.075W at 230 Vac input.

2.5 EFFICIENCY

*The efficiency shall be higher than 87.69% while measuring at 230VAC input voltage, 1/4, 2/4, 3/4 and full load, According to COC-VERSION 5-TIER 2

*The efficiency shall be higher than 77.69% while measuring at 230VAC input voltage, 1/10 load, According to COC-VERSION 5-TIER 2.


2.6 LEAKAGE CURRENT

Leakage current should be lower than 250uA under maximum input voltage and frequency.

3.0 OUTPUT CHARACTERISTICS

3.1 OUTPUT VOLTAGE & CURRENT

Output Item	Minimum	Nominal	Maximum
Vout(@0A)	14.25	15Vdc	15.75Vdc
Vout(@2.0A)	14.25Vdc	15Vdc	15.75Vdc

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3.2 HOLD UP TIME

Item	Performance	Remarks
Hold up Time	10mS	Full Load & Nominal Input voltage.



3.3 TURN ON TIME

Item	Performance	Remarks
Turn on Time	3 Second Max.	Full Load & Nominal Input voltage.

3.4 RIPPLE AND NOISE

The ripple and noise is less than 300mV for nominal input voltage bandwidth oscilloscope measured by and terminated each output with a 0.1uF ceramic 20MHz capacitor and a 10uF aluminum electrolytic capacitor.

3.5 CAPACITOR LIFE

All E-Capacitor life must meet 30k hours at 40°C ambient. (Rated input voltage)

3.6 MTBF

The power supply shall have a minimum predicted MTBF(TELCORDIA SR332 issue 03)for 100K Hours with full load based on 230V/50Hz.

4.0 PROTECTION REQUIREMENT

■ OVER VOLTAGE PROTECTION


The power supply shall be hiccupped when output voltage reaches its over-voltage condition trigger point(30V MAX),and when the fault condition is removed,the power supply shall be self-recovering .

■ OVER CURRENT PROTECTION

The power supply shall be hiccupped when operating any output in over-load condition trigger point(3.0-5.0A),and when the fault condition is removed,the power supply shall be self-recovering .

■ SHORT CIRCUIT PROTECTION

The power supply shall withstand continuous current of short circuit on output any damage,and when the fault condition is removed,the power supply shall be self-recovering.

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5.0 ENVIRONMENTAL REQUIREMENTS



The power supply shall be compliant with each item in this specification for the following environmental conditions.

Operating :

Operating Temperature	0° C ~ 45° C
Relative Humidity	5% ~ 95%
Altitude	-50 to 5000m AMSL

Storage :

Storage Temperature	-20° C ~ 85° C
Relative Humidity	5% ~ 95%

6.0 SAFETY SECTION

6.1 Hi -POT TEST


Primary to Secondary: Primary to Secondary 3000Vac /3S, 5mA Max.
1minute for typical.



6.2 INSULATION RESISTANCE

Insulation Resistance: 500Vdc/60 Sec, 10M Ω min, between primary and secondary.

6.3 SAFETY CONFORMING

	Type (Marking)	Standard
■	CE	IEC60065, EN60065, IEC60950, EN60950,

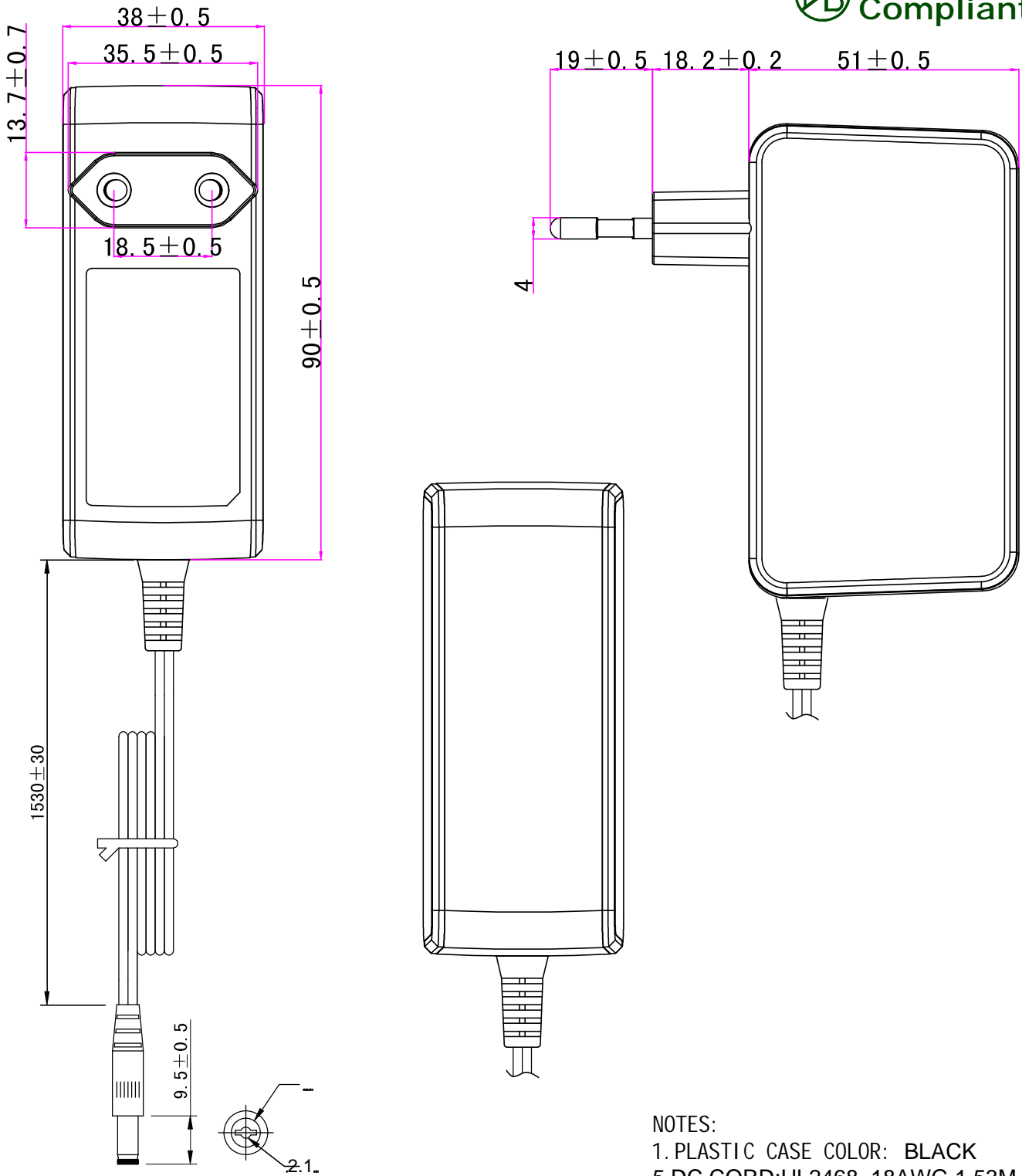
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MODEL NO.	CPS042150200V	FILE NO.				
DESCRIPTION	SPS, 100-240VAC 50Hz-60Hz/15VDC 2.0A					
<p>7.0 EMC SECTION</p> <p>7.1 EMI/RFI DESIGN TO MEET TO FOLLOWING STANDARDS</p> <p>7.1.1 Conduction: Class B(EN/IEC 55020, EN/IEC 55032, EN/IEC 55024,)</p> <p>7.1.2 Radiation: Class B(EN/IEC 55020, EN/IEC 55032, EN/IEC 55024,)</p> <p>7.1.3 Harmonic current: EN 61000-3-2</p> <p>7.1.4 Flicker Voltage: EN 61000-3-3</p> <p>7.2 EMS DESIGN TO MEET TO FOLLOWING STANDARTS.</p> <p>7.2.1 Electrostatic Discharge ESD: IEC 61000-4-2 Air Electrostatic Discharge : $\pm 8KV$ Contact Electrostatic Discharge : $\pm 4KV$</p> <p>7.2.2 Radiated Immunity RS: IEC 61000-4-3 Radiated Susceptibility : 3V/m</p> <p>7.2.3 Conducted Radio Frequency Disturbances Test CS: IEC 61000-4-6 Injected current Susceptibility : 3Vrms</p> <p>7.2.4 EFT/AC Line Noise: IEC 61000-4-4 EFT Test : $\pm 1KV$</p> <p>7.2.5 Surge: IEC 61000-4-5 K. 21 Surge Immunity Test $\pm 6KV$, Common and differential.</p> <p>7.2.6 Power Frequency Magnetic Field Test: IEC 61000-4-8</p> <p>7.2.7 Voltage Dips: IEC 61000-4-11</p>						
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8. OUTLINE DIMENSION DRAWING (UNIT: mm)

 **RoHS Compliant**

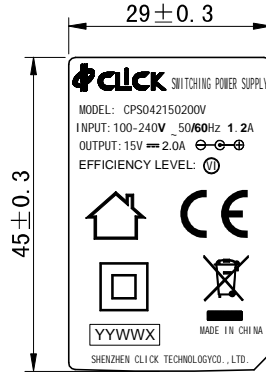


- NOTES:
 1. PLASTIC CASE COLOR: BLACK
 5. DC CORD: UL2468, 18AWG 1.53M

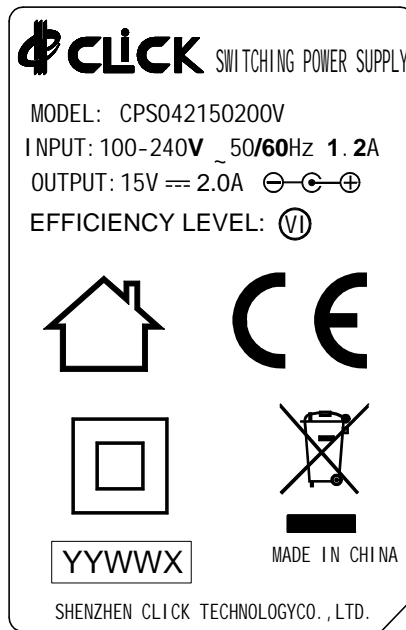
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MODEL NO.	CPS042150200V	FILE NO.	A
DESCRIPTION	SPS, 100-240VAC 50Hz-60Hz/15VDC 2.0A		

9.0 NAMEPLATE (UNIT: mm)



1:1



2:1

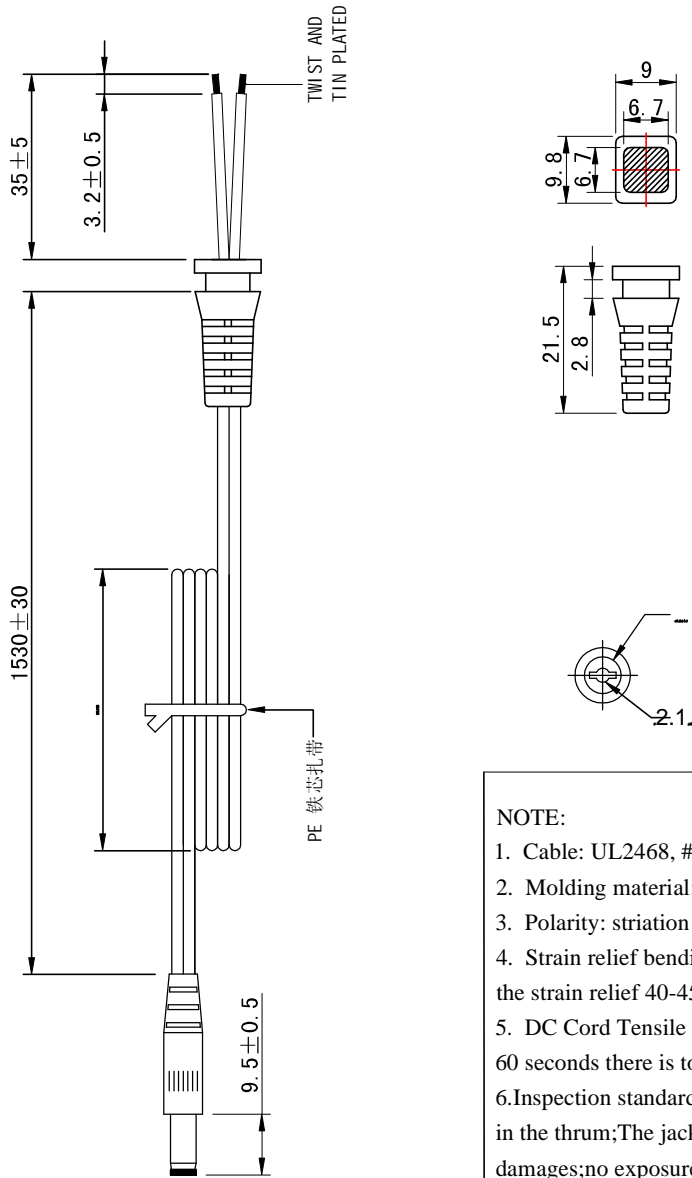
Remark:

- 1. Processing: Laser

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DESCRIPTION	SPS, 100-240VAC 50Hz-60Hz/15VDC 2.0A	REV.	A

10. DC CORD DIAMETER (UNIT: mm)



NOTE:

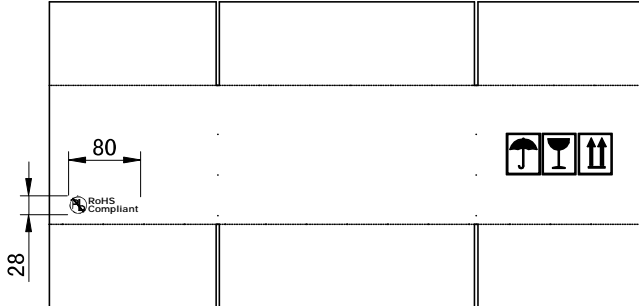
1. Cable: UL2468, #18AWG(0.16/41)*2C, COLOR: black
2. Molding material: PLUG: PVC 45P, SR: PVC 60P.
3. Polarity: striation printing "+"(plug inner pin), Text printing "-"(plug outer).
4. Strain relief bending test: Apply a 300g load to the end of cable, and swing the strain relief 40-45 degree for 3000 cycles.
5. DC Cord Tensile Strength: Attach a 20 IB weight to the cable for a duration of 60 seconds there is to be no any physical damages to the cable.
6. Inspection standard: No break is allowed for DC plug, no any broken wire is required in the thrum; The jacket can not be separated from the body or any other damages; no exposure and no any badness of tangency is allowed of the thrum core; after the strain relief bending test, the SR should not be break off, and the displacement should be 2mm.

Rev.	Reason	Checked by	Approved by
A	Primary released		

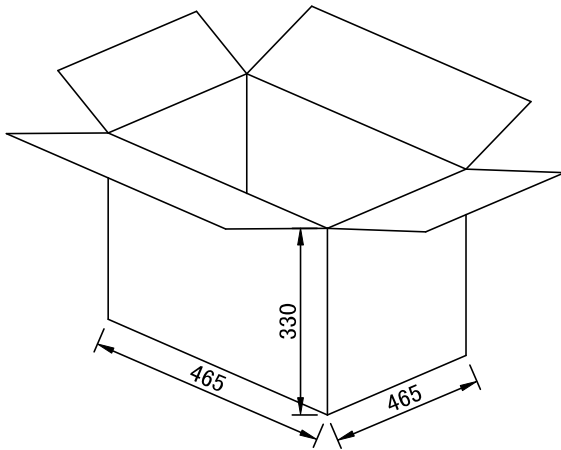
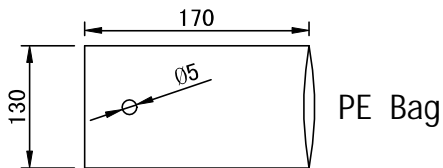
<p>SHENZHEN CLiCK TECHNOLOGY CO., LTD.</p>	DRAWN BY	CHECKED BY	CHECKED BY	SAFETY CHECK	APPROVED BY	SHEET
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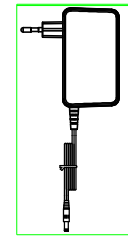
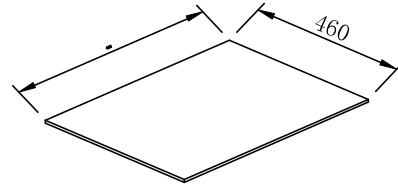
11.0 PACKING REQUIREMENT (UNIT: mm)



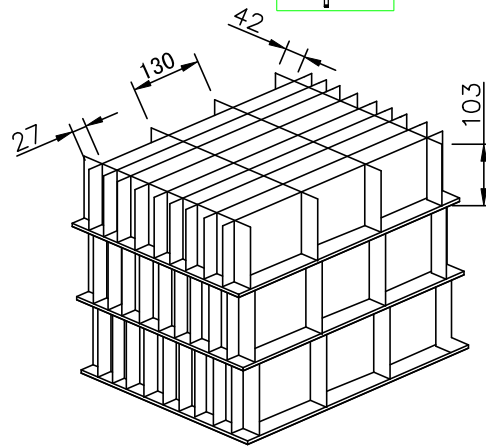
一, OUTSIDE IN BOX PRINTED DRAWING


 二, 外箱内尺寸
(K. 01. 000803R)


PE Bag



PE Bag



S/N	Carton			Clapboard			Paplt lay		
	S/N	SIZE (+5/-0)	MATERIAL	S/N	SIZE	MATERIAL	S/N	SIZE	MATERIAL
PKG. 00.	K. 01. 000803R	465x465x330	A=A	K. 01.	460x460	B3B	K. 01.	130x42x103	B=B

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Carton Label

		深圳可立克科技股份有限公司	
		SHENZHEN CLICK TECHNOLOGY CO., LTD.	
料号:	_____	订单编号:	_____
客户名称:	_____	制单编号:	_____
品名:	_____	生产日期:	_____
规格:	_____	数量:	_____
版本:	_____	周期:	_____

Rev.		Checked by	Approved by

	DRAWN BY	CHECKED BY	CHECKED BY	SAFETY CHECK	APPROVED BY	SHEET
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