Approval Sheet

FOR DISTRELEC

PART NO.: 143-37-270 (U12N033C180)

DESIGN NO.: SR-1804169-A

DATE: April 24. 2018

REMARK:

APPROVED BY (PLEASE SIGN)				

ONTOP ELECTRONIC CO., LTD. SACONTOP CO., LTD.

台北市中山北路六段一六一號二樓之二 2F-2, NO.161, SEC.6, CHUNG SHANG N. RD., TAIPEI, TAIWAN TEL: +886-2-2838-2606 FAX: +886-2-2838-2604 EMAIL: sale@sac-ontop.com.tw

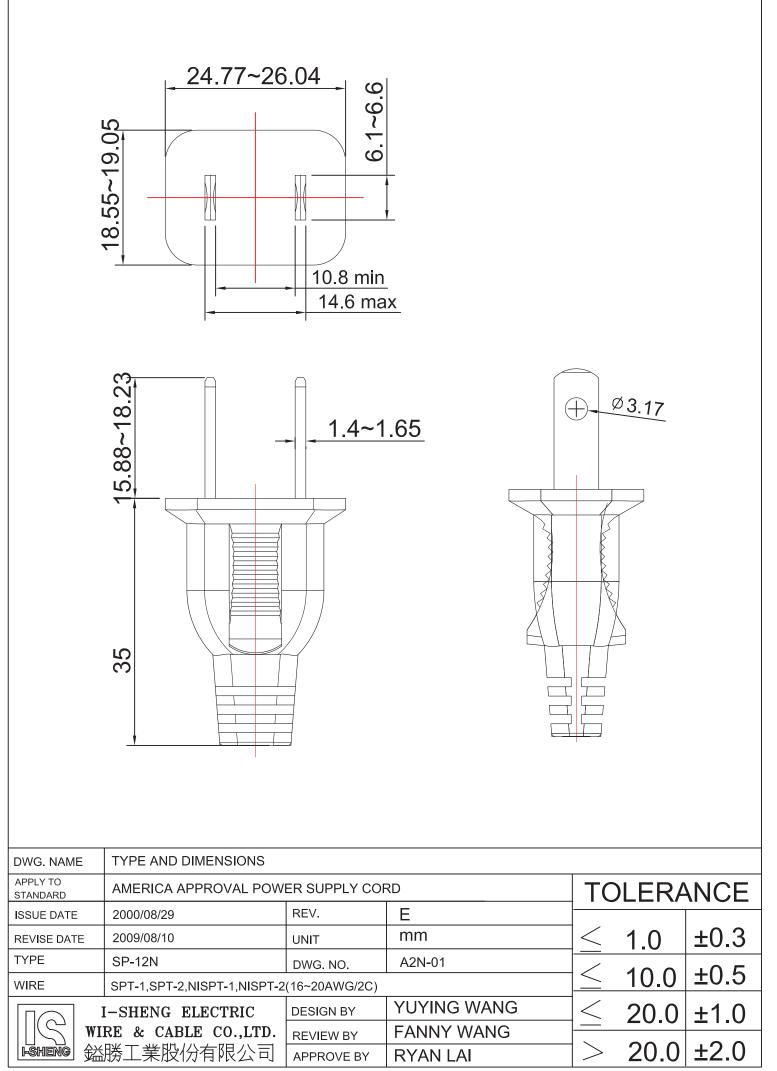
Our power supply itself is with EMC(EMI+EMS) approval. We don't have Customer's end-product, please double check EMC or peak current or any necessary request after mating with your product with our power supply.

We will produce the goods per the sample + the specification shown on this approval sheet, if you have any question on our sample or our approval sheet such as O/P, dc plug, polarity, safety, protection characteristic (OCP/OVP..etc.) please inform us before signing back the approval sheet. Thanks.

** IMPORTANT **

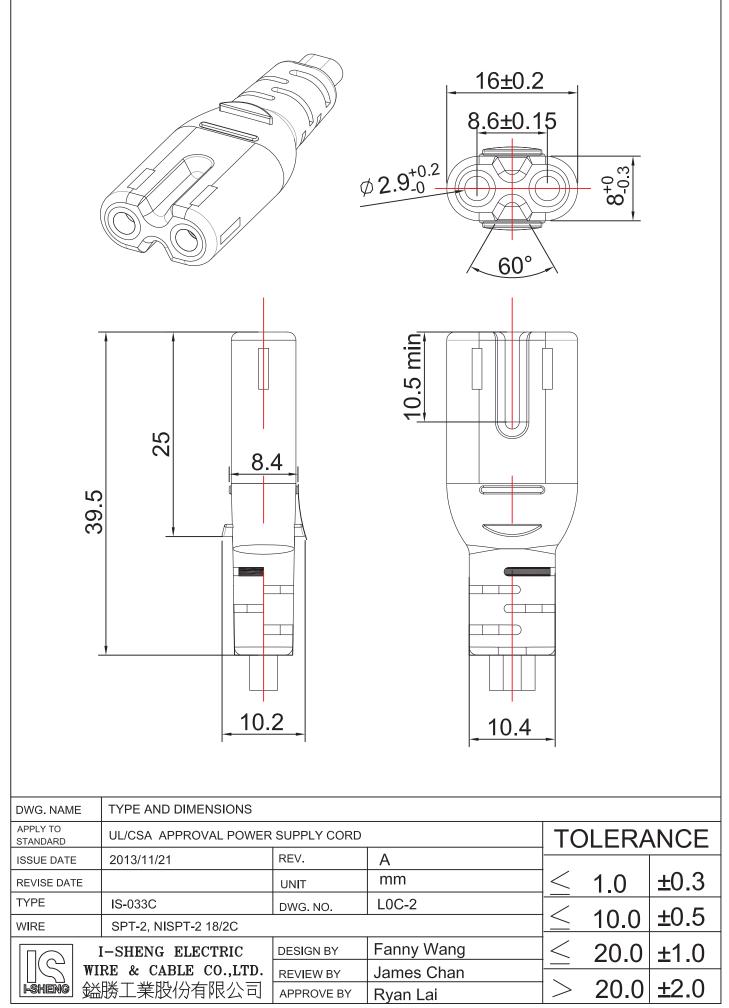
If you want to aupply the safety for power supply only or complete set (your product + our power supply), pls contact us to check details in advance. Thanks.

No 品名規格 數量 科號 1 KWC-50T 銅片 2 pcs BBN50T02 2 PVC 30P (SP-12N) 12.5 g RPP03012 3 IS-033C 磷積銅鋼管 2 pcs BPP0037B 4 IS-033C 鸡模套 1 pcs MI33C012 5 PVC 50P (IS-033C) 6.2 g RPP05012 6 扎帶(黑色, 6寸) 1 pcs KBBPE115	<u>線 村 SPT-2 18AWGx2C 60°C 凹 CT-12 (BLACK)</u> 插 頭 SP-12N + IS-033C 剪線長度 1800 單位 mm	客 名稱 Distrelec 單重 単位 Kg 戸 評號 143-37-270 KS 圖號 SR-1804169 版 久 A ア I-SHENG ELECTRONICS 制 圖 馬林崎 80.4.24 (KUN SHAN) C0., LTD. 審 核 注華高2018.04.24 (KUN SHAN) C0., LTD. 審 核 注華高2018.04.24 (KUN SHAN) C0., LTD. 審 核 注 (KUN SHAN) C0., LTD. 審 核 注 (KUN SHAN) C0., LTD. 審 核 1.2 (KUN SHAN) C0., LTD. 審 校 注 (KUN SHAN) C0., LTD. 12 180 0
LESSORA ESSORA TA 125V (B) TA 125V (B) T		配線顏色: N: Stripe 有條紋變 L: Non-Stripe 有條紋變 線材印字: (四字) (UL) E314513 SPT-2 60°C 2X18AWG(0.824mm ²) 300V VW-1 I-SHENG CSA LL81924 TYPE SPT-2 60°C 2X0.824mm ² (18AWG) 300V VW-1 Sample Drawing

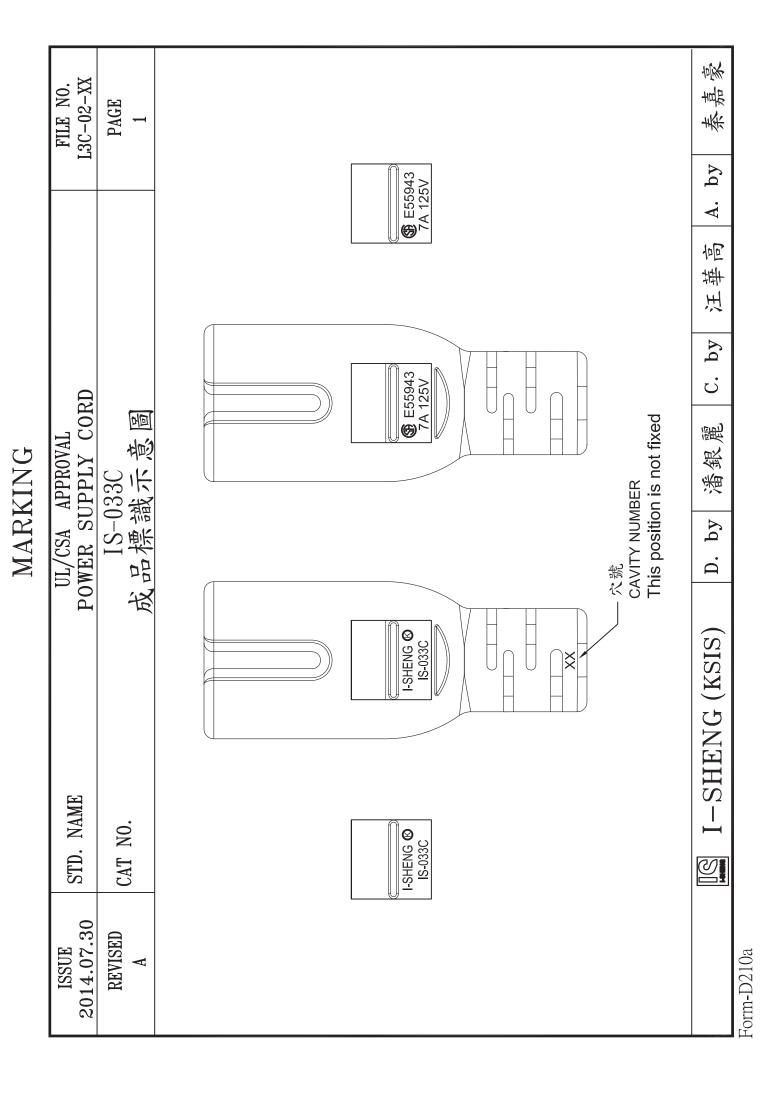


FORM : I106a

	FILE NO. A2N-02-XX	PAGE 1		by 周家榮
MARKING	UL/CSA APPROVAL Power Supply Cord	SP-12N 成品標識示意圖	で SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N SP-12N S	D. by 潘銀麗 C. by 汪華高 A.
	STD. NAME	CAT NO.		I-SHENG (KSIS)
	ISSUE 2014.04.29	REVISED A		Form-D210a



FORM : I106a



SPECIFICATION

	1								Rev. '
ssued	2014/5/23		Description						T172S211
evised			SPT	SP-12N- -2 18AW	+IS-033C /Gx2C 6	50°C		Page	1/1
UL (2. Cons	specification f 62 UL 817 struction and d	is applied to po CSA C22.2 imensions: the following		-					
	-				Rating			Approved No.	
	Item	Cat. No.		А		V	UL		SA
	Plug	SP-12N		7		125	E5594	-3 LR 3	5162
С	onnector	IS-033C	r -	7		125	E5594	-3 LL 4	1230
Flexibl Approv Rating					SPT-2 18 E88265 300V 60	• E3145		5167、LL819	24
	Conductor		Insulatio	n		Jacket		Conductor Resistance	
Nominal (mm ²) (AWG)	Compositio (pcs/mm)	n Avg. Thickness (mm)	Min Thickness (mm)	Diameter (mm)	Avg. Thickness (mm)	Min Thickness (mm)	Diameter		
18AWG	40/§0.162±0	.008 1.14	1.02	3.4±0.15 x6.8±0.2	_	_	_		
Cop 3. Cabl Taiwan: (UL) E 60°C 2 Shenzhe (UL) E	288265 SPT-2 (X0.824mm ² (18) en: 288265-C SPT-2	or	/W-1 WG(0.824						
(UL) E 60°C 2	315167 SPT-2 X0.824mm ² (18,	60°C 2X18AW AWG) 300V V	VG(0.824r	nm ²) 300	V VW-1	I-SHENG	CSA LL	81924 TYPE	SPT-2
60°C 2	88265-K SPT-2 X0.824mm ² (18)	2 60°C 2X18A AWG) 300V V 60°C 2X18AW	/W-1						
		AWG) 300V V		iiii) 300	v v vv-1	T-OTTEINO	COA LL	01724 IIFE (2-1-2

發行 ISSUED	標準名稱	Specification	檔案編號
2000.03.05	STD.NAME	SPECIFICATION	FILE NO
修訂 REVISED	題目	THE CHARACTERISTIC OF POWER SUPPLY CORD	SPEC-AC
2010.05.04	TITLE	FOR UL & CSA	SPEC-AC

Items 項目		Condition 條件	Specification 規格	
1	间 Insulation resistance 絕緣抵抗	The measurement shall be made after an open-circuit output of 500 V for 1 minute at an ambient temperature of 20°C.	polarity,	
2	Electric strength 耐電壓	Each cord set or power-supply cord shall be capable of withstanding without breakdown for a period of 1 minute The application of a 60-Hz potential of 2000 V between any two conductors. Testing transformer capacity (耐壓計容量) :500 VA or more Leakage current (遮斷電流) :2mA frequency (周波數) :50/60 Hz	Between two Conductors 2000V/1min. Between conductors And outside body. 2000V/1min.	There was no dielectric breakdown.
3	Temperature rise 溫昇	A rated current is passed thr devices under test were caused continuously for a period of four h	to carry the test current nours.	The temperature rise shall not exceed 30 degrees above the ambient temperature.

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修訂 REVISED	題目	THE CHARACTERISTIC OF POWER SUPPLY CORD	SPEC-AC
2010.05.04	TITLE	FOR UL & CSA	JFEC-AC

	Items Conditions 項目 條件						Specification 規格
4	Flexing test 屈曲強度	cord. The tes inches f SPT typ A minim the jaws side, ba the othe	s should be mo t weights attach from the point o bes and 284g fo num of 2,500 fle s from the vertic ack past the vertic er side, and bac ig shall be 10 cy	After the test the sample shall show no damage except that breakage.			
			Load Weight (g)	Angle θ(⁰)	Furthermore 90°rotational direction (turns)	Rate of flexing per min (turns)	
		plug	SPT TYPES 113 HPN TYPES 284	90	2500	10	
		connect or	SPT TYPES 113 HPN TYPES 284	90	2500	10	
		S		ing test app KING CYCLE	90" 90" (229mm) 12" (305mm)		

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修訂 REVISED	題目	THE CHARACTERISTIC OF POWER SUPPLY CORD	SPEC-AC
2010.05.04	TITLE	FOR UL & CSA	SPEC-AC

	Items 項目	Specification 規格				
5	Withdrawal force 引拔力	is then again ir exerts a force of withdrawal force made in one pl Verification of t	mass is hung on the connector without jolting and the supplementary mass is allowed to fall from a height of 5 cm on to the principal mass.			
		Type of connector	Multi-r		wal force kg) Single-pin gauge	the appliance inlet.
		connector	Max	Min	minimum	After Verification of the minimum
		0.2A 2.5A 6A 10A	50 (5.1)	10 (1.0)	1.5 (0.15)	withdrawal force test. The test pin gauge is applied
		16A	60 (6.1)	15 (1.5)	2 (0.2)	gently, and care is taken not to knock the assembly
						when checking the minimum withdrawal force. The gauge shall not fall from the contact assembly within 3 sec.
6	Resistance to Aging 老化試驗	Samples of ea air-circulating of a	There was no cracking or deformation.			
7	Polarity/Continuity 導通	The power cor test voltage is		e test polari	ty and continuity, th	ne Without breakdown

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	Items 項目	Conditions 條件	Specification 規格
8	Resistance to heat 耐熱試驗	The test being made in a heating cabinet at a temperature of $100 \pm 2^{\circ}$ C. The specimen is clamped between steel jaws, having a cylindrical face of 25mm radius, a width of 15mm and a length of 50mm. The corners are rounded with a radius of 2.5mm. The specimen is clamped in such a way that the jaws press against it in the area where it is gripped in normal use, the centre line of the jaws coinciding as nearly as possible with the centre of this area. The force applied through the jaws is 20N	After 1h, the jaws are removed and the specimen shall show no damage within the meaning of this standard.
9	Moisture resistance 耐濕性		
	Blade Connection Secureness 銅片與線材壓著力 測試	A pull of 20 lbf (89 N) shall be applied if the conductor is No. 18 AVVG or larger in size. If a smaller cord is used, the pull shall be 8 lbf (36 N).	

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2010.05.04	TITLE	FOR UL & CSA	SPEC-AC

Items		Conditions	Specification
11	項目 Blade security	條件 Apply a straight pull of 98 Newton for 2 min between an	規格 After the test, the
	銅片牢固力測試	attachment plug and blade(s).	blades shall not be displaced by more than 2.4mm.
12	Strain relief 外部拉力測試	Apply a straight pull of 137.2 Newton for 1 min between an attachment plug and a flexible cord and between a cord connector and a flexible cord.	Without damage, such as displacement or looseness or detachment of metal parts, conductor break, insulation damage etc.

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2010.05.04	TITLE	FOR UL & CSA	SPEC-AC

ltems 項目	Conditions 條件	Specification 規格
13 Abrupt Pull 突拉測試	The sample being tested shall be subjected to an impact by rasing and releasing a 1.1kg weight, allowing it to fall freely from distance of 7 inches to impact the strike plate. Each of six representative devices required, two is to be tested in each of the following orientations. a) Blades in the vertical position, b) Fitting rotated 90° to the right of the vertical position, and c) Fitting rotated 90° to the left of the vertical position. Exception No. 1: The abrupt pull test is not required for power-supply cords employing Types XTW, CXTW, TPT, TST, shaver, and clock cords. Exception No. 2: The abrupt pull test is not required for cord sets and power-supply cords employing 10 AWG and larger flexible cords. I 2 90° TO LEFT 90° TO LEFT 90° TO RIGHT 2 1 2	allowed after test.
14 Bending strength of connector body 本體機械強度	After the connector's point is fixed as shown in the figure below. Load of 10kg shall be applied vertically and slowly for 15 s. $0^{+0.3}$ SAMPLE FOR TESTING 11±0.5 UNIT:mm	