



Specification for Approval

Customer : 株式会社アコン

Part Name : AC ADAPTER

Description : 24 Volts / 12.5 Amps (Peak 18A)

Model No. : ATS300T-P240

Customer P / N :

Product P / N : ATS300TP240Z12202

Issued Date : 04 - Aug. - 2023

Version : A4

Issued Stamp :

Customer's Approval Signature

ADAPTER TECHNOLOGY CO.,LTD.

Office (Taiwan) : 6F,No.258, Liancheng Rd.,Zhonghe District,New Taipei City 235,Taiwan (R.O.C.)

TEL : +886-2-8226-2279

FAX : +886-2-8226-2238

E-mail : service@ adaptertech.com.tw ; service_tw@ adaptertech.com.tw

Factory (China) : BOAYANG ELECTRONICS CO., LTD.



300 W
Switching Power Adapter
SPECIFICATION

Model No. : **ATS300T-P240**

Description : **24 Volts / 12.5 Amps(Peak 18A)**

Part No. : **ATS300TP240Z12202**

Version : **A4**

Date : **04 - Aug. - 2023**



Approved	Reviewed	Checked	Prepared	Sales



■ Approval Documents/Spec. Revised Records

■ Customer : 株式会社アコン

■ Model No. : ATS300T-P240

■ Original Documents Content : Spec. 11 Pages, Attachment 3 Pages

Revised Records : No.	Date	Description (Before / After)	Page(s) Revised	Revised By (Adapter/Customer)	Version
1	Feb./02/2021	Issue	-	Satoshi	A1
2	Nov./19/2021	Change DC cord	Attachment	Satoshi	A2
3	Aug./31/2022	Modify label	P4,P5,P8	Satoshi	A3
4	Aug./04/2023	Modify label	P4,P5,P8	Satoshi	A4
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17					



1. Feature :

- ◆ **Input** : Universal 100 ~ 240 Vac / 50 - 60 Hz Input, without any slide switch.
- ◆ **Output** : +24 V / 0 ~ 12.5 A (At Peak Io = 18 A / 1 Sec Max., off for 1 Sec)
- ◆ **Case Dimension** : 254(L) * 116 (W) * 47(H) mm ±1 mm
- ◆ **Efficiency** : Eff (av) ≥ 87.5%
- ◆ **Safety** : CUL / UL / GS / PSE / BSMI / CCC / UKCA / KC
- ◆ **EMI** : CE / FCC Class B, Conduction & Radiation Met.
- ◆ **Protection** : OVP (Over Voltage Protection), SCP (Short Circuit Protection), OCP (Over Current Protection), OTP (Over Temperature Protection)
- ◆ Suitable for usage at Telecommunication, Computer, Industrial Controller, & OA System.
- ◆ Meet DoE LEVEL VI.

2. Input :

2.1 Voltage	Universal 100 ~ 240 Vac, single phase
2.2 Frequency	50 ~ 60 Hz
2.3 Current	3.9 A Max.
2.4 Inrush Current	150 A Max. / 230 Vac (Cold start at 25°C, full load)
2.5 Efficiency	Eff (av) ≥ 87.5% (At 115 Vac & 230 Vac)
2.6 Power Consumption	Pi ≤ 0.5 W (At 230 Vac & No load)
2.7 Power Factor (PF)	Pi ≥ 0.9 (At Full load)

$$\text{※Eff (av)} = \frac{E_1 + E_2 + E_3 + E_4}{4}$$

E_1 =efficiency with 25% rated load ; E_2 = efficiency with 50% rated load
 E_3 =efficiency with 75% rated load ; E_4 = efficiency with 100% rated load

3. Output :

3.1 DC Output	Voltage	+24.00 V ± 5%
	Current	12.5 A Max. (At Peak Io = 18 A / 1 Sec Max., off for 1 Sec)
	Regulation	(1)22.8 Vmin. ~ 24.0 Vtyp. ~ 25.2 Vmax. (2) 21 Vmin (At Peak Io = 18 A / 1 Sec Max., off for 1 Sec)
	Ripple & Noise	480 mV Max.
	Total Power	300 W Max. (Peak 432 W / 1 Sec Max., off for 1 Sec)

Remark: For ripple & noise measurement, use a 20MHz bandwidth frequency oscilloscope, and add a 0.1μF multilayer Cap. ,and a Low ESR Electrolytic Cap. (47 μF) at output connector terminals. (At nominal line voltage, full load)



4. Protection :

4.1 Over Voltage Protection (OVP)	V out * 150% Max.
4.2 Short Circuit Protection (SCP)	Latch protection.
4.3 Over Current Protection (OCP)	I out * 190% Max.
4.4 Over Temperature Protection (OTP)	Latch protection.

Remark : When Short Circuit Protection or Over Current Protection or Over Voltage Protection or Over Temperature Protection is activated, the power supply will latch.

5. Safety, EMI and EMC Requirement :

5.1 Safety Requirement

a. Safety : CUL / UL / GS / PSE / BSMI / CCC / UKCA / KC

b. Dielectric Strength : 10mA Max. Cut off current

(1)	Primary to Secondary	3000 Vac for 1 Minute
(2)	Primary to Frame Ground	1500 Vac for 1 Minute

c. Insulation Resistance :

(1)	Primary to Secondary	10 M OHMS for 500 Vdc
(2)	Primary to Frame Ground	10 M OHMS for 500 Vdc

5.2 EMI Requirement : CE / FCC Class B, Conduction & Radiation Met.

5.3 Leakage Current : Less than 3.5 mA

6. Operation and Environment Performance :

6.1 Temperature Range

Operating	+ 0°C ~ + 40°C
Storage	- 20°C ~ + 80°C

6.2 Humidity Range(Non-condensing)

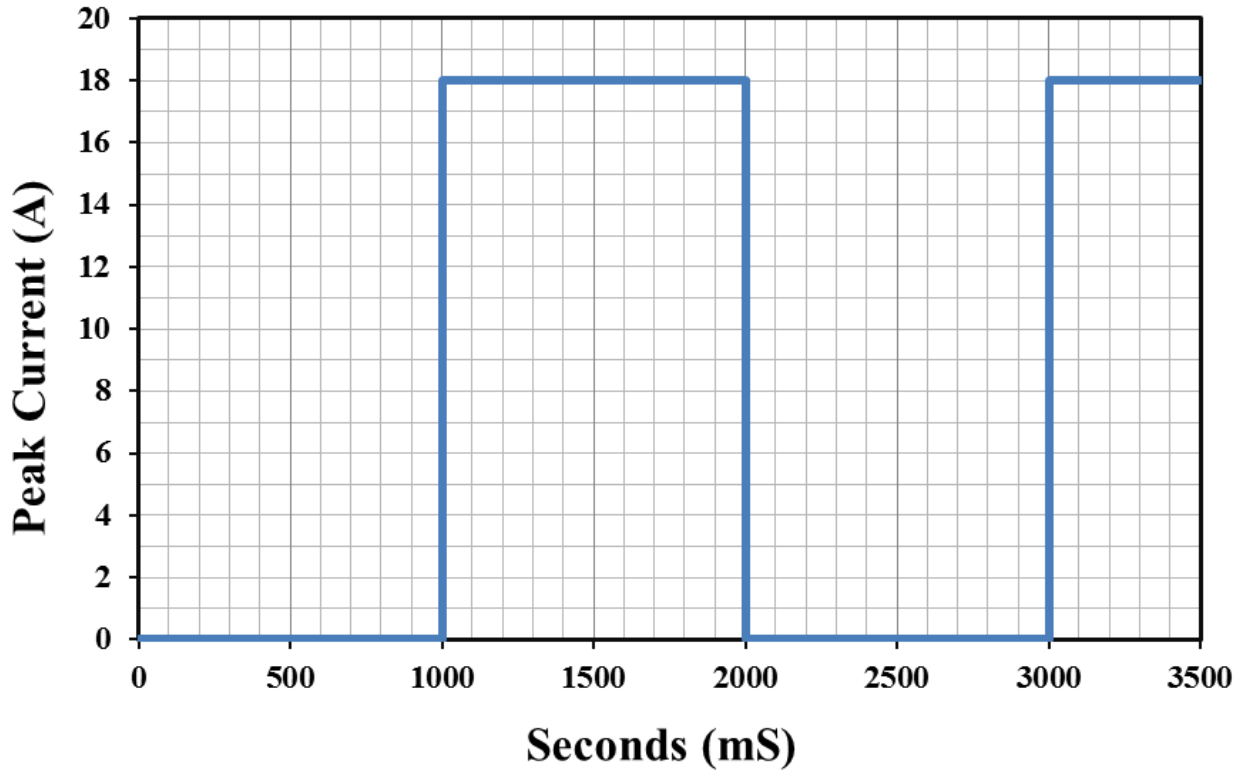
Operating	20% ~ 80% RH
Storage	10% ~ 90% RH

6.3 Cooling : By natural air.

7. M.T.B.F. : 300,000 Hrs.(Calculated Hours at 25°C, By Telcordia SR-332)

8. Peak Power Curve :

The lowest output voltage shall be greater than 21.0 V under peak 18 A load.



9. Mechanical :

9.1 Weight : 1600 g Typical

9.2 Cable Type : Black UL2095 16AWG*4C
(Wire + Plug)

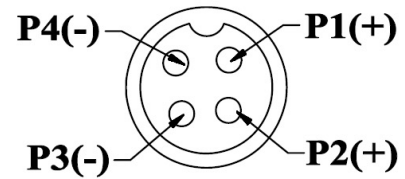
Plug : 4 Pin (MISUMI:PLT-164-P-R)

9.3 Cable Length : 1200 mm

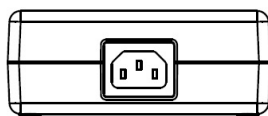
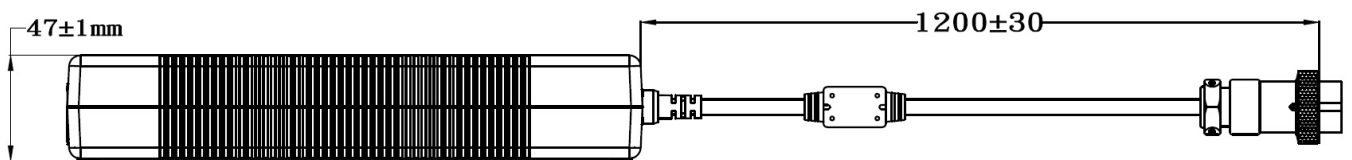
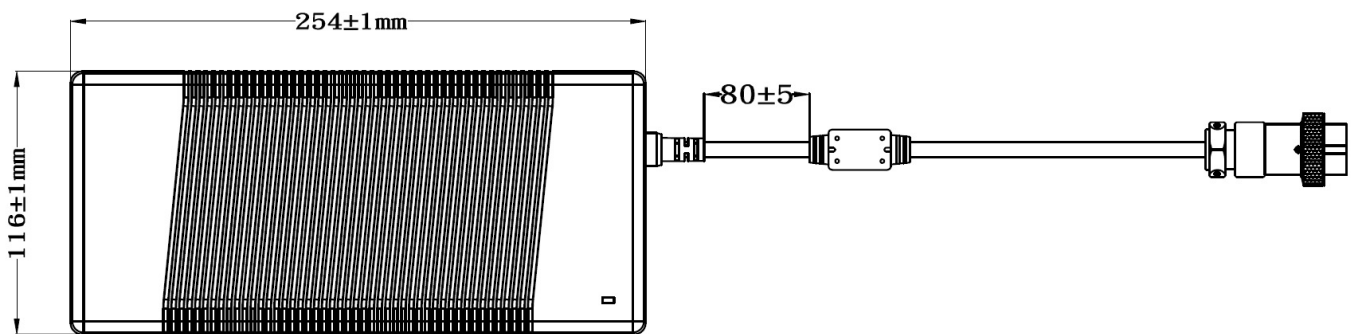
9.4 Case Dimension : 254 mm(L)*116 mm(W)*47mm(H) ± 1 mm

9.5 Material Flammability : UL 94V-0

9.6 External Appearance : As drawing below (Scale → mm)



Output Cable Plug Pin Assignment



FRONT-VIEW



Adapter Technology Co., Ltd.

9.7 Spec Label Materials : Metalized Polyester Label (Silver Gloss)
 Color : Black Background with Silver Printing
 Label Dimension : 68.5mm(H)*174.5mm(W)+/-0.1mm
 Label Thickness : 75#

100%

ADAPTER TECH.

AC ADAPTER 交換式電源供應器/电源适配器
 Model (型號/型号) : AT3300T-P240
 INPUT (輸入/输入) : 100-240V ~ 50-60Hz 3.9A Max.
 OUTPUT (輸出/输出) : 24.0V \equiv 12.5A 300.0W VI

For use with information technology equipment only
 Laite on Liitettävä suojakoskettimilla varustettuun pistorasiaan
 Apparatet må tilkobles jordet stikkontakt
 Apparaten skall anslutas till jordat uttag
 Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord

FOR INDOOR USE ONLY 仅限室内使用

Manufacturer (制造商): 阿达特科技股份有限公司

“YYYY.MM”
 YYYY=Year=2023 (4 yard)
 MM=Month=08 (2 yard)

"XXX"
 Label supplier's code
 It is accurate that the number of words depends on the real finished product

Label Part No:9443116542



A. Line Regulation Test

Test Result :

Test condition	Spec.	Reading 1	Reading 2	Reading 3
90 Vac / 50% Load	22.8 V ~ 25.2 V	23.96 V	23.82 V	23.95 V
115 Vac / 50% Load	22.8 V ~ 25.2 V	23.96 V	23.82 V	23.95 V
132 Vac / 50% Load	22.8 V ~ 25.2 V	23.96 V	23.82 V	23.95 V
180 Vac / 50% Load	22.8 V ~ 25.2 V	23.96 V	23.83 V	23.95 V
230 Vac / 50% Load	22.8 V ~ 25.2 V	23.96 V	23.83 V	23.95 V
264 Vac / 50% Load	22.8 V ~ 25.2 V	23.96 V	23.83 V	23.95 V

B. Efficiency Test

Test Result :

Test condition	Spec.	Reading 1	Reading 2	Reading 3
115 Vac	87% Min.	91.34%	91.73%	91.76%
230 Vac	87% Min.	92.84%	93.09%	93.24%

$$\text{Eff (av)} = \frac{E_1 + E_2 + E_3 + E_4}{4}$$

E_1 =efficiency with 25% rated load, E_2 = efficiency with 50% rated load
 E_3 =efficiency with 75% rated load, E_4 = efficiency with 100% rated load

C. Load Regulation Test

Test Result :

Test condition	Spec.	Reading 1	Reading 2	Reading 3
115 Vac / 0% Load	22.8 V ~ 25.2 V	24.15 V	24.00 V	24.05 V
115 Vac / 50% Load	22.8 V ~ 25.2 V	23.96 V	23.83 V	23.95 V
115 Vac / 100% Load	22.8 V ~ 25.2 V	23.77 V	23.65 V	23.65 V
230 Vac / 0% Load	22.8 V ~ 25.2 V	24.15 V	24.00 V	24.05 V
230 Vac / 50% Load	22.8 V ~ 25.2 V	23.96 V	23.83 V	23.95 V
230 Vac / 100% Load	22.8 V ~ 25.2 V	23.77 V	23.65 V	23.65 V

D. Ripple & Noise Test

Test Result :

Test condition	Spec.	Reading 1	Reading 2	Reading 3
115 Vac / 100% Load	480 mV Max.	110 mV	115 mV	111 mV
230 Vac / 100% Load	480 mV Max.	109 mV	112 mV	108 mV



E. Inrush Current

Test Result :

Test condition	Spec.	Reading 1	Reading 2	Reading 3
230 Vac / 100% Load	150 A Max.	96 A	95 A	95 A

F. Over Voltage Protection

Test Result :

Test condition	Spec.	Reading 1	Reading 2	Reading 3
115 Vac / 100% Load	Vout*150% Max.	118%	120%	120%
230 Vac / 100% Load	Vout*150% Max.	118%	120%	120%

G. Over Current Protection

Test Result :

Test condition	Spec.	Reading 1	Reading 2	Reading 3
115 Vac / 100% Load	Iout*190% Max.	168%	169%	168%
230 Vac / 100% Load	Iout*190% Max.	168%	169%	168%

H. Short Circuit Protection

Test Result :

Test condition	Spec.	Reading 1	Reading 2	Reading 3
115 Vac / 100% Load	Latch	OK	OK	OK
230 Vac / 100% Load	Latch	OK	OK	OK

I. Input Power Consumption(No Load)

Test Result :

Test condition	Spec.	Reading 1	Reading 2	Reading 3
230 Vac / 0% Load	≤ 0.5 W	0.34 W	0.32 W	0.33W

J. Power Factor

Test Result :

Test condition	Spec.	Reading 1	Reading 2	Reading 3
115 Vac / 100% Load	≥ 0.9	0.99	0.99	0.99
230 Vac / 100% Load	≥ 0.9	0.95	0.95	0.99



Efficiency Test Report

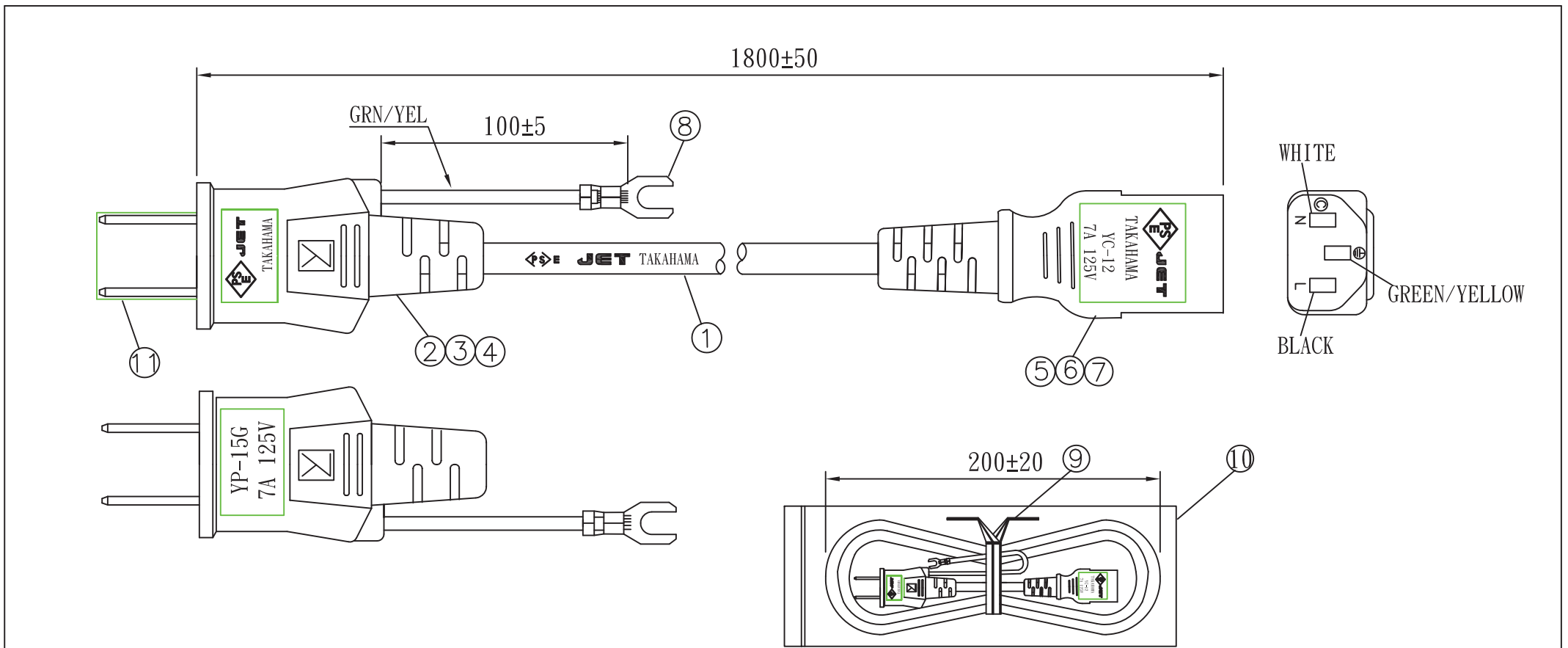
- A. Model Number : ATS300T-P240(24V /12.5A /300W)
- B. DC Power Cord : UL2095, 4C, 16AWG,1200 mm.
- C. Average Efficiency :
DoE LEVEL VI : 87.5 % Min.
- D. NO Load Power Consumption :
DoE LEVEL VI : 0.5W max.
Erp (Stage 2) : 0.5W max.
MEPS V : 0.5W max.
- E. Testing Dequpment :
1. AC Power Source : " APE " APW-110N
2. Electronic Load : " PRODIGIT " 3356F
3. Power Meter : " YOKOGAWA" WT-210
4. Digital Meter : " FLUKE " 179
- F. AC Input Voltage : 115Vac/60Hz

Reported Quantity \ Load Conditions	100%* I ₀	75%* I ₀	50%* I ₀	25%* I ₀	0%* I ₀
Rms Output Current(mA)	12500mA	9375mA	6250mA	3125mA	0mA
Rms Output Voltage(V)	23.772V	23.866V	23.960V	24.054V	24.146V
Active Output Power(W)	297.15W	223.74W	149.75W	75.17W	0.00W
Rms Input Voltage(V)	115V	115V	115V	115V	115V
Rms Input Current(A)	2.860A	2.119A	1.406A	0.734A	0.040A
Rms Input Power(W)	327.29W	245.09W	163.30W	82.07W	0.31W
Voltage T.H.D.(%)	0.34	0.33	0.29	0.26	0.25
True Power Factor	0.997	0.998	0.997	0.970	0.042
Power Consumed by UUT(W)	30.14W	21.35W	13.55W	6.90W	0.31W
Efficiency	90.79%	91.29%	91.70%	91.59%	*
Average Efficiency	91.34%				*

- G. AC Input Voltage : 230Vac/50Hz

Reported Quantity \ Load Conditions	100%* I ₀	75%* I ₀	50%* I ₀	25%* I ₀	0%* I ₀
Rms Output Current(mA)	12500mA	9375mA	6250mA	3125mA	0mA
Rms Output Voltage(V)	23.778V	23.869V	23.962V	24.054V	24.145V
Active Output Power(W)	297.23W	223.77W	149.76W	75.17W	0.00W
Rms Input Voltage(V)	230V	230V	230V	230V	230V
Rms Input Current(A)	1.438A	1.080A	0.734A	0.414A	0.048A
Rms Input Power(W)	319.76W	240.92W	160.36W	81.58W	0.34W
Voltage T.H.D.(%)	0.32	0.30	0.30	0.29	0.23
True Power Factor	0.968	0.963	0.945	0.856	0.047
Power Consumed by UUT(W)	22.54W	1.00W	10.60W	6.41W	0.34W
Efficiency	92.95%	92.88%	93.39%	92.14%	*
Average Efficiency	92.84%				*

Tester : Satoshi

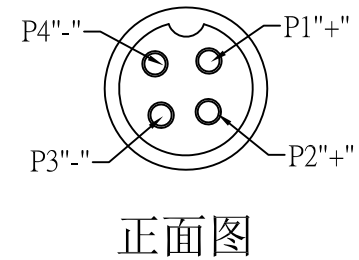
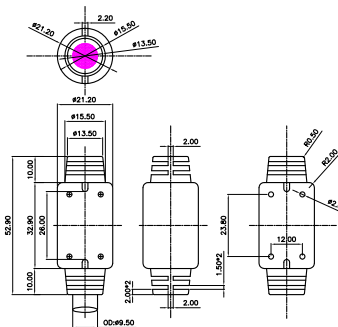
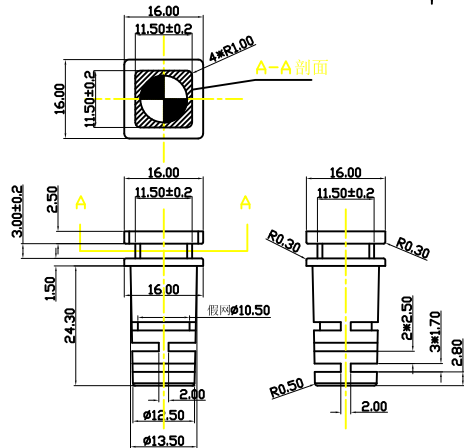
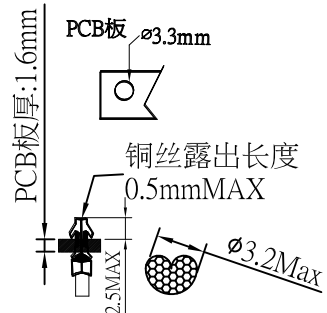
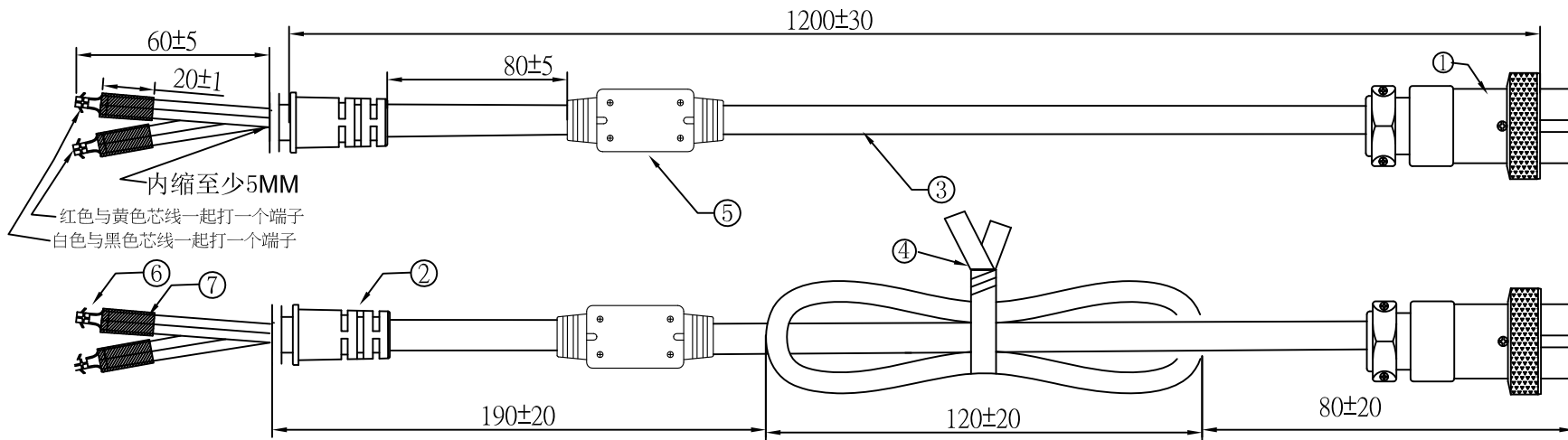


NO.	SPECIFICATION	Q' TY	REMARK
1	VCTF 0.75/3C BLACK PSE	1PC	
2	YP-15G TER:98675BS-1	2PCS	
3	TP-15G INNER BODY	1PC	
4	YP-15G PVC PLASTIC:50P BLACK	23g/PC	
5	YC-12 PVC PLASTIC:50P BLACK	18g/PC	
6	YC-12 TER:97740PS-0	3PCS	
7	YC-12 INNER BODY	1PC	
8	"Y"TER:96552BS-2	1PC	
9	MINI TIE:L=130mm	1PC	
10	LOCK BAG:250*110*0.04mm	1PC	
11	SLEEVE WHITE	1PC	

CORD MARKING:

《P》E JET TAKAHAMA VCTF 3G 0.75mm² 20XX -F-

Tolerance >0±0.30 >1.0±0.50 >10.0±1.0 >20.0±2.0 Angle: ±1°	Approved	Date		YUNG LI CO.,LTD				
	Checked	Date						
	Drawn	黃 方	Date	15.12.24	Customer	阿達特		
	Cat. No.	YP-15G/YC-12			P/N.	R427A218011		
Drawing No.	CY-P0335		Rev.	B	Material	P.V.C	Unit	mm
					HEFT(g)		⊕	≡



P1,P2	P3,P4
红黄	黑白

注意:此圖面所需材料符合"ROHS"標準

- ① 阿达特提供：4PIN 航空母头(MISUMI: PLT-164-P-R),阿达特提供(36E02-H284)
- ② SR-684號模,用料PVC60P黑色,吊重:1米/20磅/60秒
- ③ UL 2095 16AWG(0.16*65)*4C(红,黄,白,黑)过粉线 BK亮 OD:6.5裁線長度:1280+10/-0
- ④ PE无鐵芯紫帶14CM黑色
- ⑤ 铁芯规格:16*28.5*8,外模T-A367号模,用料PVC 60P 黑色
- ⑥ 3.2机板端子*2Pcs (进文:P3200-T)
- ⑦ 热缩套管(BK): $\phi 3*20*2\text{Pcs}$
- ⑧ 單位:MM

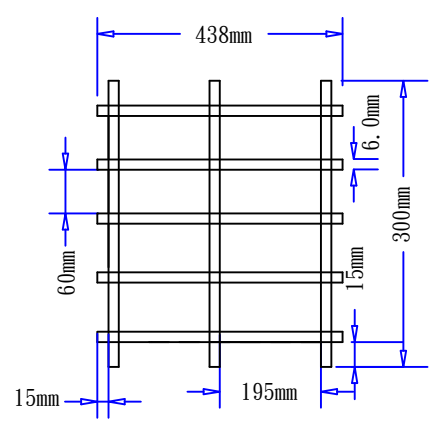
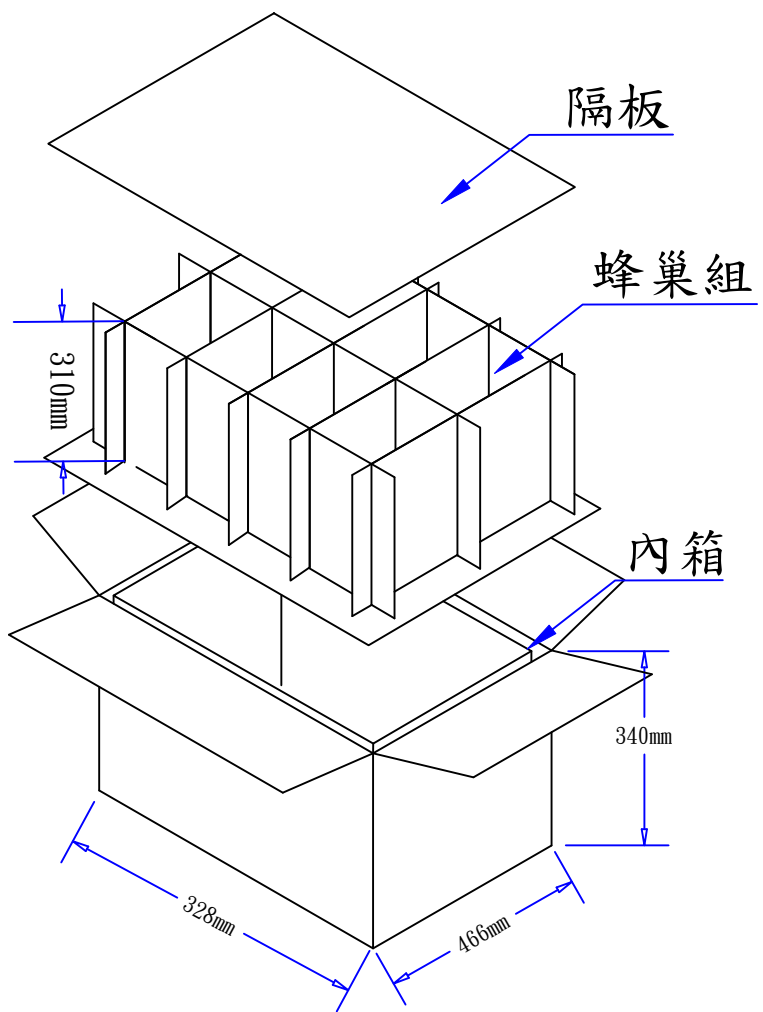
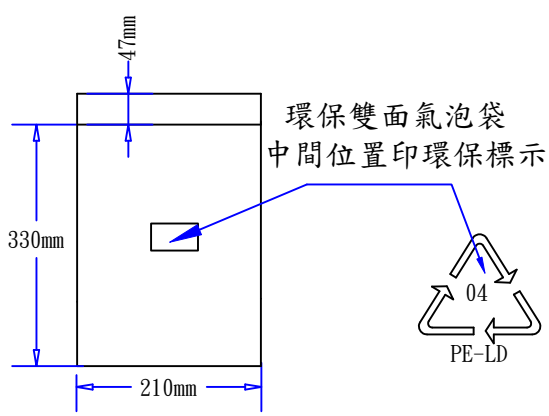
1.0mm以下	±0.1mm	15.0mm以下	±0.6mm
2.0mm以下	±0.15mm	20.0mm以下	±0.8mm
3.0mm以下	±0.20mm	30.0mm以下	±1.0mm
10.0mm以下	±0.50mm	30.0mm以上	±1.2mm

01	新出	2021/11/17
版次	变更内容	日期

料號	X44210X120107		
客戶	阿達特	制圖	陶胜英
頁數	01	審核	
		批準	

泰岳電子有限公司			
圖號	ADT-6953	日期	2021/11/17

REVISIONS				
SHOW	REV	DESCRIPTION	DATE	APPROVED
△	A	初版制作	21/01/27	SUN



PIS300W0008 包裝(FOR ATS300T-P+AC Cord)(K=K)-環保雙面氣泡袋-內箱-邊分-8

- [9550046801](#) 1. 隔板:438(L)*300(W)*6mm K=K 2/8
- 2. 數量:2*4*1=8PCS
- [9520073701](#) 3. 內箱:452(L)*314(W)*322(H)mm(無上下蓋) K=K 1/8
- [9520073801](#) 4. 外箱:466(L)*328(W)*340(H)mm K=K 1/8
- [9560045401](#) 5. 3刀卡:438(L)*310(W)*6mm(邊分) K=K 5/8
- [9560045501](#) 6. 5刀卡:300(L)*310(W)*6mm(邊分) K=K 3/8
- [9540011301](#) 7. 環保雙面氣泡袋:330(L)*210(W)*47mm 無色透明, 中間位置須加印環保標示. 1/1
- 8. 將成品放入氣泡袋中,LABEL 朝向環保標示,SR 部份朝上,AC 線裝入蜂巢位於DC 線側, 所有包裝需統一.
- 9. 外箱標示為外徑尺寸, 以上材料需符合RoHS標準.

阿達特科技股份有限公司
Adapter Technology Co., Ltd.

DRAWING NO. PIS300W0008			APPROVAL 1 BY		
UNIT	MODEL NO	ATS300T-P/A+AC線	APPROVAL 2 BY		
mm	FILE NO.	ADT-0722	CHECKED BY(ENGINEER)		Sun
SCALE	REV.	A	SHEET	1/1	DRAWN BY
					Moon
Apply for sales		Apply for engineer		Use the sales	



Adapter Technology Co, Ltd

9.7 Spec Label Materials : Metalized Polyester Label (Silver Gloss)
 Color : Black Background with Silver Printing
 Label Dimension : 68.5mm(H)*174.5mm(W)+/-0.1mm
 Label Thickness : 75#

100%

ADAPTER TECH.

AC ADAPTER 交換式電源供應器/电源适配器
 Model (型號/型号) : ATS300T-P240
 INPUT (輸入/输入) : 100-240V ~ 50-60Hz 3.9A Max.
 OUTPUT (輸出/输出) : 24.0V \equiv 12.5A 300.0W VI

For use with information technology equipment only
 Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan
 Apparatet må tilkobles jordet stikkontakt
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FOR INDOOR USE ONLY 仅限室内使用

CE, FCC, GS, R33154 RoHS, UK CA, RoHS, LISTED 60JJ E225703

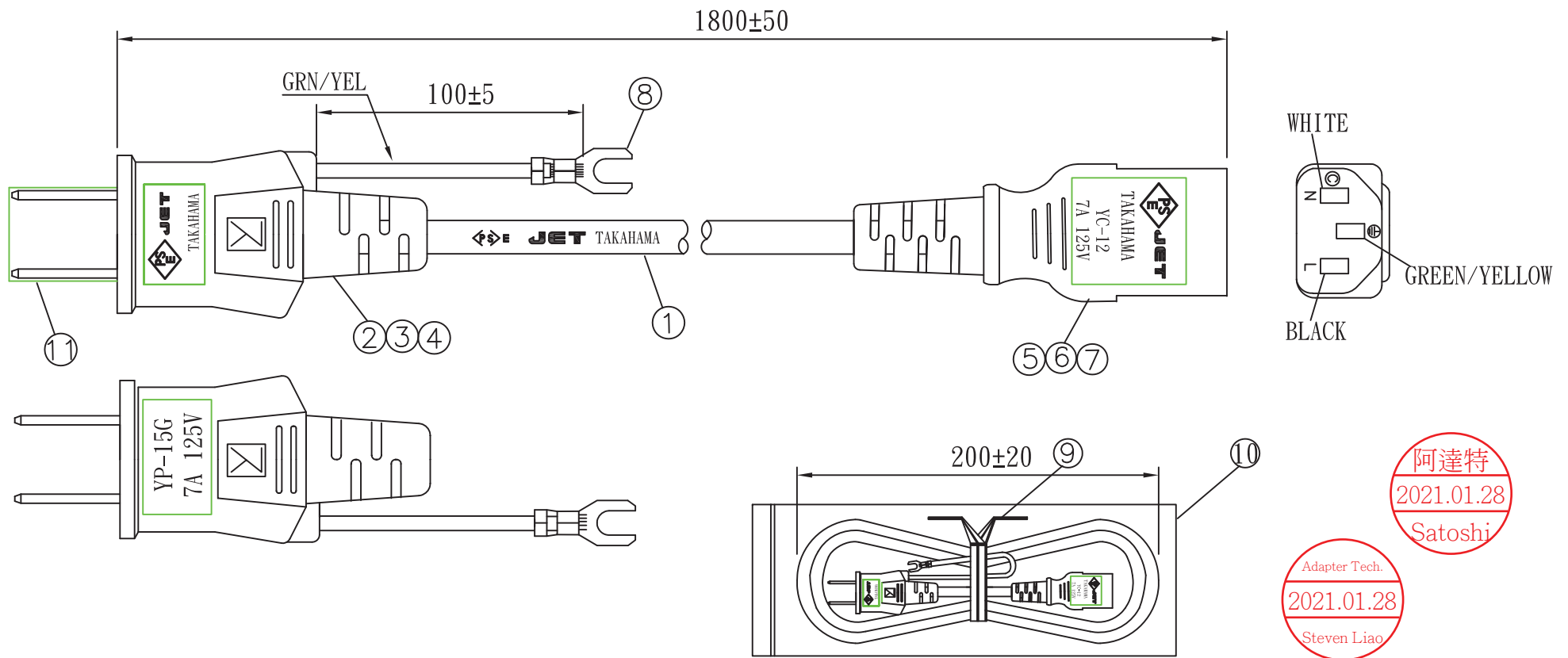
Manufacturer(制造商):阿达特科技股份有限公司

“YYYY.MM”
 YYYY=Year=2023 (4 yard)
 MM=Month=08 (2 yard)

"XXX"
 Label supplier's code
 It is accurate that the number of words depends on the real finished product



Label Part No:9443116542



阿達特
2021.01.28
Satoshi

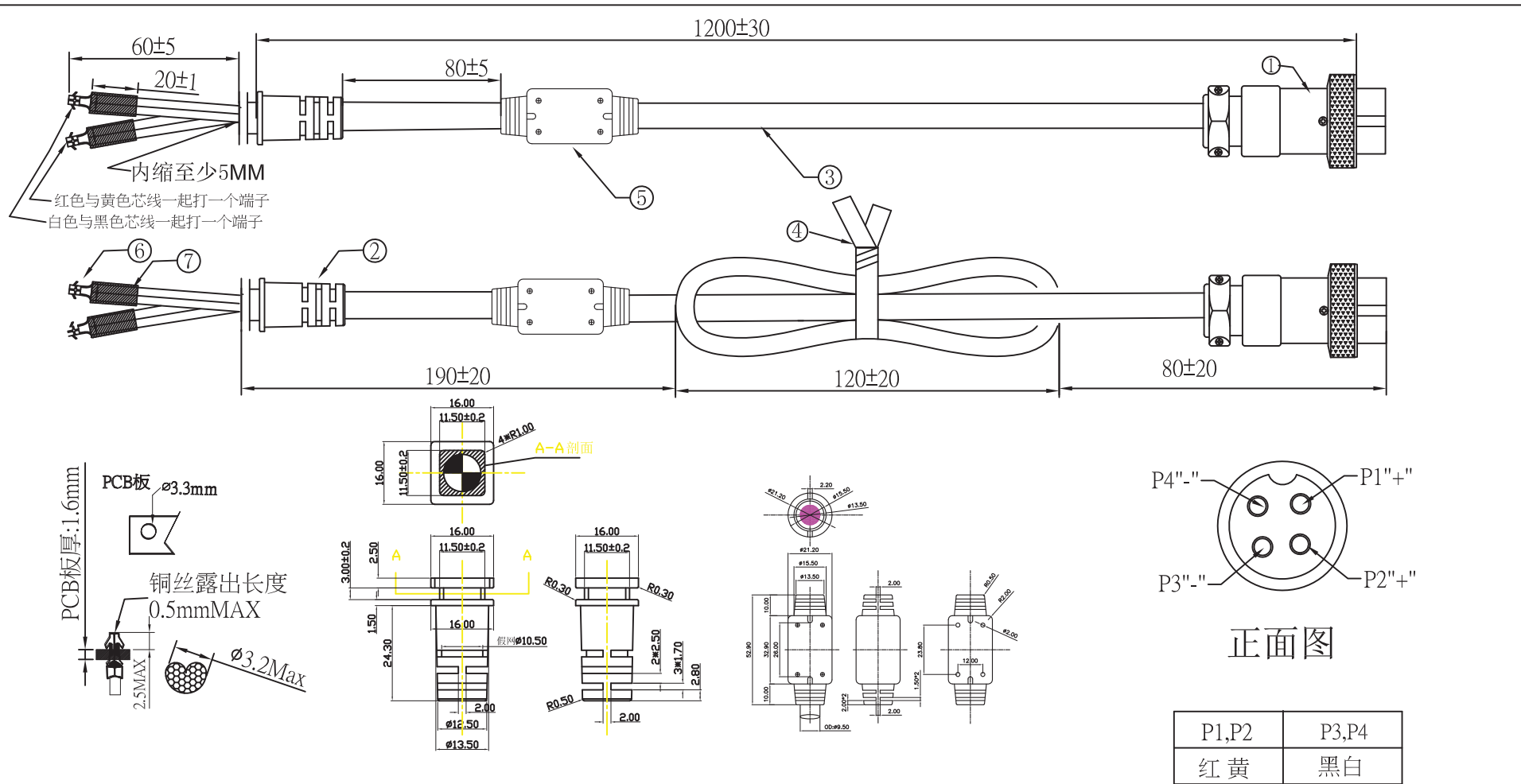
Adapter Tech.
2021.01.28
Steven Liao

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5	YC-12 PVC PLASTIC:50P BLACK	18g/PC	
6	YC-12 TER:97740PS-0	3PCS	
7	YC-12 INNER BODY	1PC	
8	"Y"TER:96552BS-2	1PC	
9	MINI TIE:L=130mm	1PC	
10	LOCK BAG:250*110*0.04mm	1PC	
11	SLEEVE WHITE	1PC	

CORD MARKING:

《P》E JET TAKAHAMA VCTF 3G 0.75mm² 20XX -F-

Tolerance >0±0.30 >1.0±0.50 >10.0±1.0 >20.0±2.0 Angle: ±1°	Approved	Date		YUNG LI CO.,LTD					
	Checked	Date							
	Drawn	黃方	Date	15.12.24	Customer	阿達特			
	Cat. No.	YP-15G/YC-12			P/N.	R427A218011			
	Drawing No.	CY-P0335		Rev.	B	Material	P.V.C	Unit	mm
						HEFT(g)			



注意:此圖面所需材料符合"ROHS"標準

- ① 阿達特提供: 4PIN 航空母头(MISUMI: PLT-164-P-R),阿達特提供(36E02-H284)
- ② SR-684號模,用料PVC60P黑色,吊重:1米/20磅/60秒
- ③ UL 2095 16AWG(0.16*65)*4C(红,黄,白,黑)过粉线 BK亮 OD:6.5裁線長度:1280+10/-0
- ④ PE无鐵芯紫帶14CM黑色
- ⑤ 铁芯规格:16*28.5*8,外模T-A367号模,用料PVC 60P 黑色
- ⑥ 3.2机板端子*2Pcs (进文:P3200-T)
- ⑦ 热缩套管(BK): $\phi 3*20*2\text{Pcs}$
- ⑧ 單位:MM

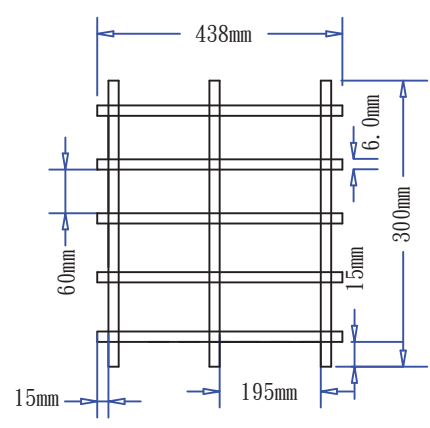
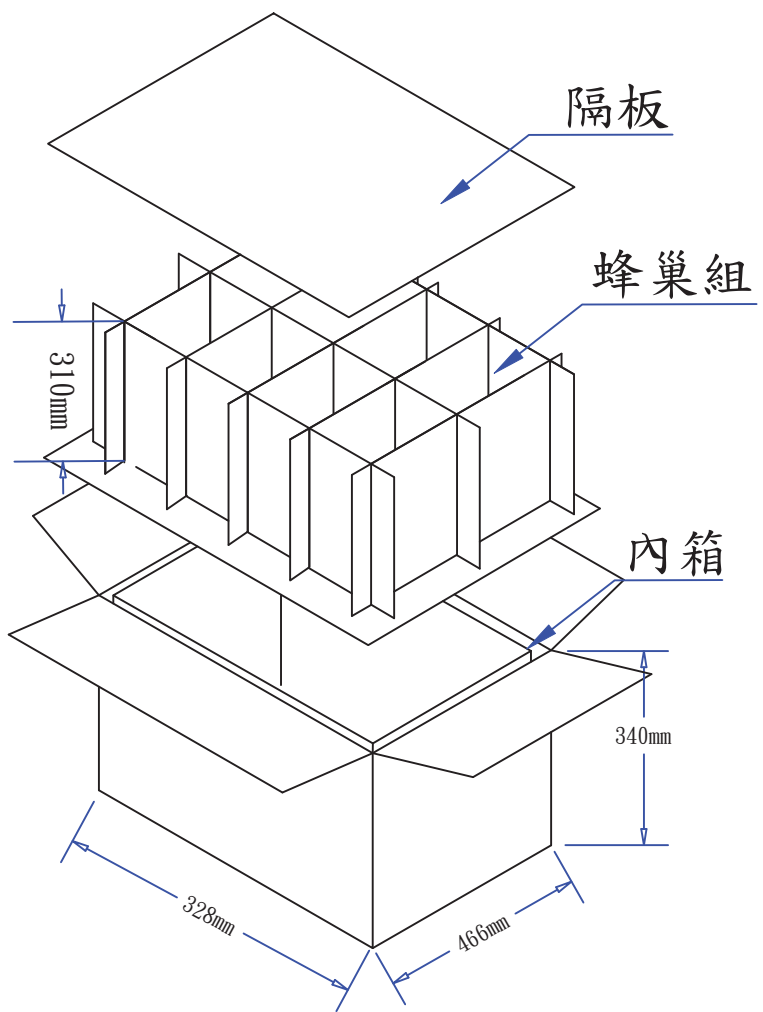
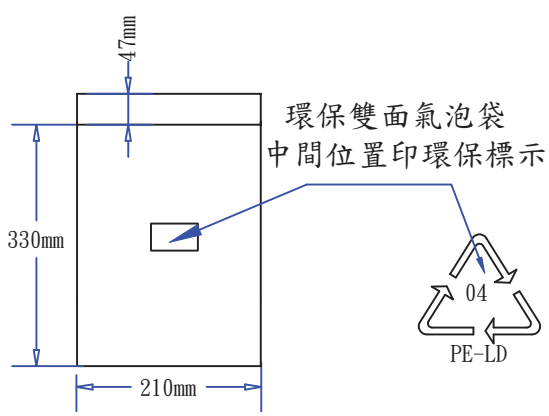


一般公差表			
1.0mm以下	±0.1mm	15.0mm以下	±0.6mm
2.0mm以下	±0.15mm	20.0mm以下	±0.8mm
3.0mm以下	±0.20mm	30.0mm以下	±1.0mm
10.0mm以下	±0.50mm	30.0mm以上	±1.2mm

01	新出	2021/11/17
版次	变更内容	日期

料號	X44210X120107		
客戶	阿達特	制圖	陶胜英
頁數	01	審核	
		批準	
泰岳電子有限公司			
圖號	ADT-6953	日期	2021/11/17

REVISIONS				
SHOW	REV	DESCRIPTION	DATE	APPROVED
△	A	初版制作	21/01/27	SUN



PIS300W0008 包裝(FOR ATS300T-P+AC Cord)(K=K)-環保雙面氣泡袋-內箱-邊分-8

- [9550046801](#) 1. 隔板:438(L)*300(W)*6mm K=K 2/8
- 2. 數量:2*4*1=8PCS
- [9520073701](#) 3. 內箱:452(L)*314(W)*322(H)mm(無上下蓋) K=K 1/8
- [9520073801](#) 4. 外箱:466(L)*328(W)*340(H)mm K=K 1/8
- [9560045401](#) 5. 3刀卡:438(L)*310(W)*6mm(邊分) K=K 5/8
- [9560045501](#) 6. 5刀卡:300(L)*310(W)*6mm(邊分) K=K 3/8
- [9540011301](#) 7. 環保雙面氣泡袋:330(L)*210(W)*47mm 無色透明, 中間位置須加印環保標示. 1/1
- 8. 將成品放入氣泡袋中,LABEL 朝向環保標示,SR 部份朝上,AC 線裝入蜂巢位於DC 線側, 所有包裝需統一.
- 9. 外箱標示為外徑尺寸, 以上材料需符合RoHS標準.

阿達特科技股份有限公司
Adapter Technology Co., Ltd.

DRAWING NO. PIS300W0008			APPROVAL 1 BY		
UNIT	MODEL NO. ATS300T-P/A+AC線	APPROVAL 2 BY			
mm	FILE NO. ADT-0722	CHECKED BY(ENGINEER)		Sun	2021/01/27
SCALE	REV. A	SHEET 1/1	DRAWN BY	Moon	2021/01/27
Apply for sales		Apply for engineer		Use the sales	