

Features

- Universal Input 100~240VAC 50/60Hz
- IEC/EN/ANSI/AAMI ES 60601-1 (ED 3.1)
- EMC: IEC60601-1-2:2014(ED 4.0)
- Safety Approvals: cULus / UKCA / CB / PSE / FCC / CE / TUV / RoHS / REACH
- Means of Protection: 2 X MOPP
- Touch Current: < 100μA
- Single Output to 36W
- Regulated Output with Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Meets DoE Level VI, Energy Star, ErP Stage 2

















Ideal Power's 44ATM036T-Pxyz-RS 36W AC/DC External Desktop Medical Power Supply (PSU) Series are certified to cULus, UKCA, CB, PSE, FCC, CE, TUV, RoHS, REACH & EN 60601-1/IEC 60601-1/ES 60601-1 Standards and comply with (EU) 2019/1782, Level VI Efficiency Regulations. These are primarily used in Medical, ITE, Audio & Video Industries and customised solutions are available upon request.

Models				
Model Number	RS Part Number	Output Voltage	Output Current	Output Power
44ATM036T-P050-RS	229-7849	5V DC	5A	25W
44ATM036T-P075-RS	229-7851	7.5VDC	4A	30W
44ATM036T-P090-RS	229-7853	9V DC	4A	36W
44ATM036T-P120-RS	229-7855	12V DC	3A	36W
44ATM036T-P180-RS	229-7857	18V DC	2A	36W
44ATM036T-P240-RS	229-7858	24V DC	1.5A	36W

Switched Made Davier Sweet
Switched Made Dower Cumby
Switched Mode Power Supply
IEC 320-C14
2.5x5.5x11.0mm +ve inner/centre
1
VI
Desktop
300,000 hours calculated at 25°C, by Telcoria SR-332
LED Indicator for power on
1500mm(±30mm)
16AWG/18AWG/20AWG (Depending on model)
Yes



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Housing Material	Fully Enclosed Plastic Case
Overall Dimensions	100mm x 50mm x 33mm
Overall Length	100mm
Overall Depth	50mm
Overall Width	33mm
Weight	210g

Input Specifications

Rated Input Voltage	100~240Vac (±10%)	
Rated Frequency	50/60Hz	
Efficiency Level VI	Level VI / Efficiency (EU) 2019/1782	
Input Current	1.0A-0.45A	
Inrush Current	70A Max. / 230Vac (Cold Start At 25ºC, Full Load)	
Touch Current	Less than 100μA	
Input Protection	Internal Primary Current Fuse	

Output Specifications

Output Regulation	±5%
Ripple & Noise (max.)	2% Vp-p Max. for Output Voltage @ Full Load
Voltage Tolerance	±5%
Load Regulation	±5%
No Load Power Consumption	<0.075W
Hold-up Time	10mS @ Full Load
Transient Response	0.5mS for 50% Load Change(Typical)
Number of Outputs	1
Insulation Class	
Dielectric Strength	Primary to Secondary 4,000Vac for 1 Minutes
Isolation Resistance	10M Ω for 500Vdc
Over Circuit Protection	Auto-recovery
Over Voltage Protection	V out * 200% MAX., latch off
Over Current Protection	I out * 200% MAX., auto-recovery

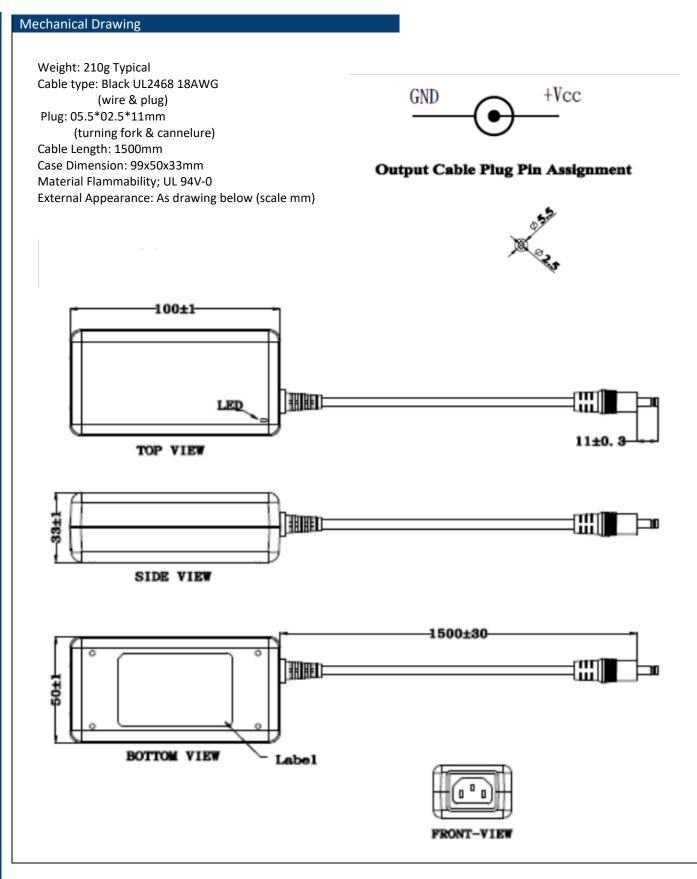
Protection Category

Means of Protection	2 X MOPP		

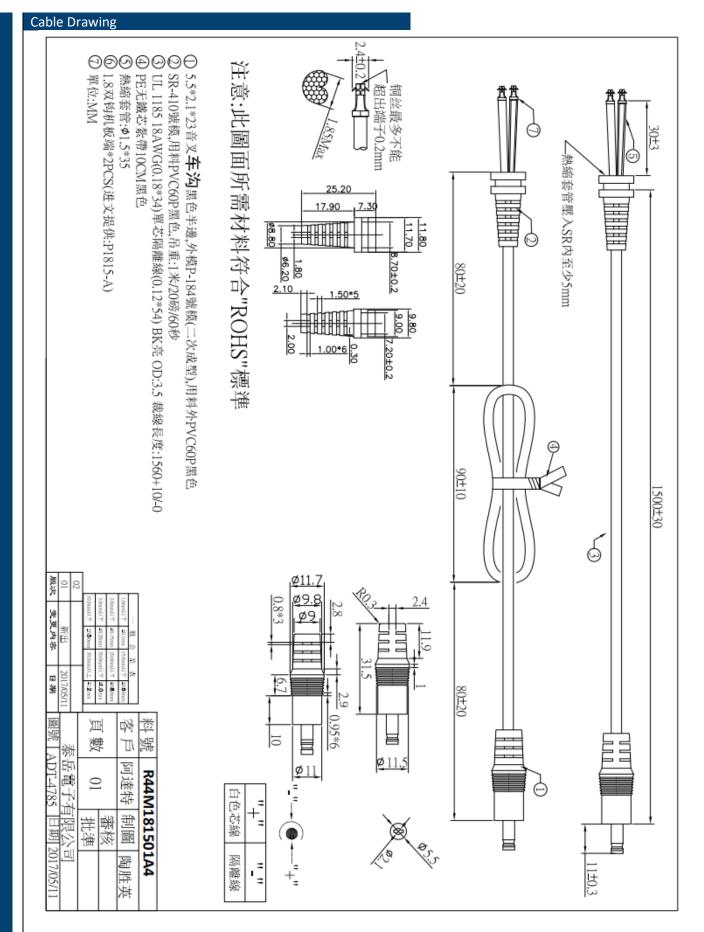
Approvals

Compliance/Certifications	CB / cULus/ FCC / CE / UKCA / T-mark / TUV / PSE
Safety Standard	IEC/EN/ANSI/AAMI ES 60601-1
EMC Emission:	Directive 93/42/EEC (EN 60601-1-2)



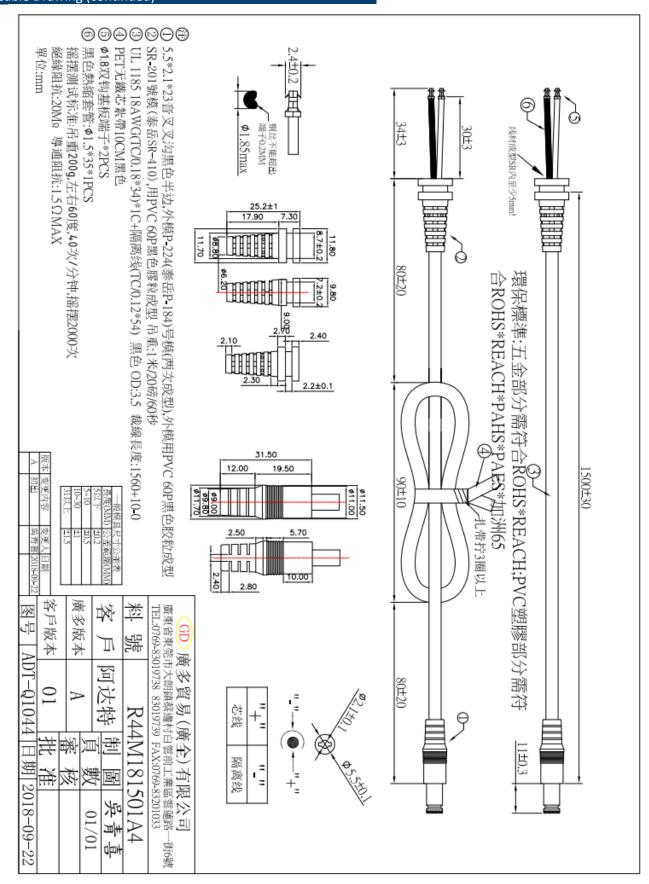






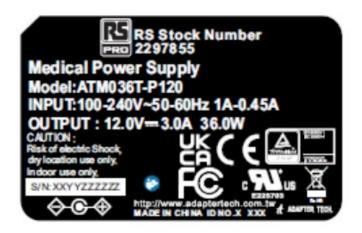


Cable Drawing (continued)



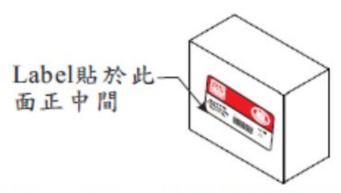


Labels





條碼內容為: 229-7855

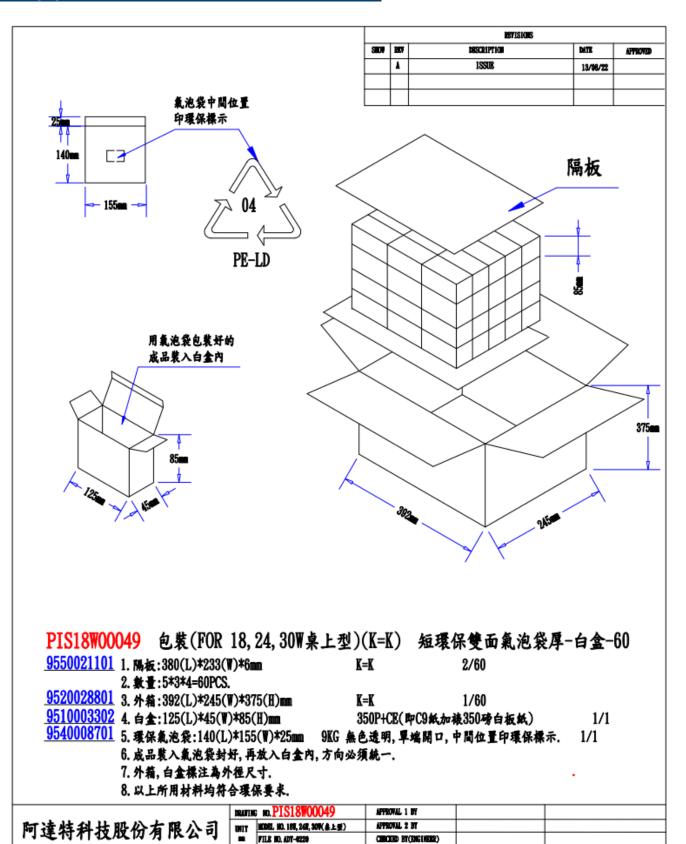


Label Part No.:94Z9000060 REV:A

MTB: 2013/08/22



Packaging



REV. A



Test Results

A. Line Regulation Test

Test Result :

Test condition	Spec.	Reading 1	Reading 2	Reading 3
90Vac / 50 % Load	11.40V ~ 12.60V	12.07 V	12.02 V	12.04 V
115Vac / 50 % Load	11.40V ~ 12.60V	12.07 V	12.02 V	12.04 V
132Vac / 50 % Load	11.40V ~ 12.60V	12.07 V	12.02 V	12.04 V
180Vac / 50 % Load	11.40V ~ 12.60V	12.07 V	12.02 V	12.04 V
230Vac / 50 % Load	11.40V ~ 12.60V	12.07 V	12.02 V	12.04 V
264Vac / 50 % Load	11.40V ~ 12.60V	12.07 V	12.02 V	12.04 V

B. Efficiency Test

Test Result :

Test condition	Spec.	Reading 1	Reading 2	Reading 3
115Vac	87.403% Min.	88.13 %	88.26 %	88.14 %
230Vac	87.403% Min.	88.15 %	88.02 %	88.24 %
230Vac@10% load	78.303% Min	85.07 %	84.89 %	85.23 %

C. Load Regulation Test

Test Result :

Test condition	Spec.	Reading 1	Reading 2	Reading 3
115Vac / 0 % Load	$11.40V \sim 12.60V$	12.24 V	12.19 V	11.21 V
115Vac / 50 % Load	$11.40V \sim 12.60V$	12.07 V	12.02 V	12.04 V
115Vac / 100 % Load	11.40V ~ 12.60V	11.90 V	11.84 V	11.87 V
230Vac / 0 % Load	11.40V ~ 12.60V	12.24 V	12.19 V	11.21 V
230Vac / 50 % Load	11.40V ~ 12.60V	12.07 V	12.02 V	12.04 V
230Vac / 100 % Load	11.40V ~ 12.60V	11.89 V	11.84 V	11.87 V



Test Results (continued)

D. Ripple & Noise Test

Test Result :

Test condition	Spec.	Reading 1	Reading 2	Reading 3
115Vac / 100 % Load	120mVpp Max.	57.8 mV	61.2 mV	44.3 mV
230Vac / 100 % Load	120mVpp Max.	49.2 mV	51.2 mV	32.2 mV

E. Inrush Current

Test Result :

Test condition Spec.		Reading 1	Reading 2	Reading 3
230Vac / 100 % Load	70A Max	62.9 A	63.5 A	62.1 A

F. Over Current Protection

Test Result :

Test condition		Spec.	Reading 1	Reading 2	Reading 3	
	115Vac / 100 % Load	I out *200% MAX	140 %	139 %	138 %	
	230Vac / 100 % Load	I out *200% MAX	146%	145 %	144 %	

G. Short Circuit Protection

Test Result :

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

H. Input Power Consumption(No Load)

Test Result :

Test condition	Spec.	Reading 1	Reading 2	Reading 3	
230Vac / 0 % Load	$\leq 0.1 \text{ W}$	0.07W	0.07W	0.07W	



Test Results (continued)

Efficiency Test Report

A. Model Number : ATM036T-P120(12.0V/3.0A)

B. DC Power Cord : UL1185, 18AWG, 1.5M

C. Efficiency :

LEVEL VI EFF(av) $\geq 87.403\% \& Eff \geq 78.303\% @ 10\% Load$

D. NO Load Power Consumption:

LEVEL VI 0.1W max.

E. Testing Dequipment

1. AC Power Source : "Chroma 61605
2. Electronic Load : "PRODIGIT" 3311F
3. Power Meter : "YOKOGAWA" WT310
4. Digital Meter : "FLUKE" 179

F. AC Input Voltage : 115Vac/60Hz

Load Conditions Reported	100%* I₀	75%* I ₀	50%* I ₀	25%* I ₀	10%* I ₀	0%* I ₀
Rms Output Current(mA)	3000mA	2250mA	1500mA	750mA	300mA	0mA
Rms Output Voltage(V)	11.850V	11.939V	12.027V	12.114V	12.174V	12.201V
Active Output Power(W)	35.55W	26.86W	18.04W	9.09W	3.65W	0.00W
Rms Input Voltage(V)	115V	115V	115V	115V	115V	115V
Rms Input Current(A)	0.733A	0.594A	0.456A	0.310A	0.266A	0.199A
Rms Input Power(W)	40.86W	30.55W	20.33W	10.21W	4.20W	0.050W
Total Harmonic Distortion of the input current	162.00%	177.50%	194.32%	217.72%	239.97%	154.21%
True Power Factor	0.487	0.450	0.393	0.289	0.225	0.002
Power Consumed by UUT(W)	5.31W	3.69W	2.29W	1.12W	0.55W	0.05W
Efficiency	87.01%	87.93%	88.74%	88.99%	86.96%	*
Average Efficiency	88.17%					*

G. AC Input Voltage : 230Vac/50Hz

Load Conditions Reported	100%* I ₀	75%* I ₀	50%* I ₀	25%* I ₀	10%* I ₀	0%* I ₀
Rms Output Current(mA)	3000mA	2250mA	1500mA	750mA	300mA	0mA
Rms Output Voltage(V)	11.845V	11.935V	12.023V	12.112V	12.174V	12.201V
Active Output Power(W)	35.54W	26.85W	18.03W	9.08W	3.65W	0.00W
Rms Input Voltage(V)	230V	230V	230V	230V	230V	230V
Rms Input Current(A)	0.504A	0.419A	0.328A	0.235A	0.218A	0.184A
Rms Input Power(W)	40.82W	30.49W	20.40W	10.28W	4.32W	0.064W
Total Harmonic Distortion of the input current	223.85%	239.25%	253.31%	276.62%	365.71%	456.32%
True Power Factor	0.352	0.315	0.272	0.191	0.141	0.002
Power Consumed by UUT(W)	5.29W	3.64W	2.37W	1.20W	0.67W	0.06W
Efficiency	87.11%	88.15%	88.52%	88.60%	85.07%	*
Average Efficiency		88.10)%			*

Tester :Sun