

Product specification

Customer : _____

Model : ADPUMXMS-2.1AEUL

Prepared by : Claudia

Checked by : _____

Approved by : _____

Approved by customer : _____

ULTRA MAX

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Characteristics

1.1 Input Characteristics:

1) Input Rated Voltage. Frequency :		100-240V 50/60Hz
2) Input Voltage Range:	Continuously	90VAC to 264VAC
3) Input Frequency Range:	Continuously	50Hz to 60Hz
Vibration Rate input frequency	Continuously	47Hz to 63Hz
4) Input Current:	100Vac in/2.1A load	0.4A Max.
	240Vac in/2.1A load	0.4A Max
5) Inrush Current: (Cold start)	@230VAC cool start	80A Max .
6) No Load Power Consumption:	100-240Vac in	< 0.3W
7) Leakage current:	240Vac/50Hz	≤250uA
8) Power Factor:	100-240Vac in Full Load	NC

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1.2 Output Characteristics:

1) Output Characteristics: Measured at the end of DC cable

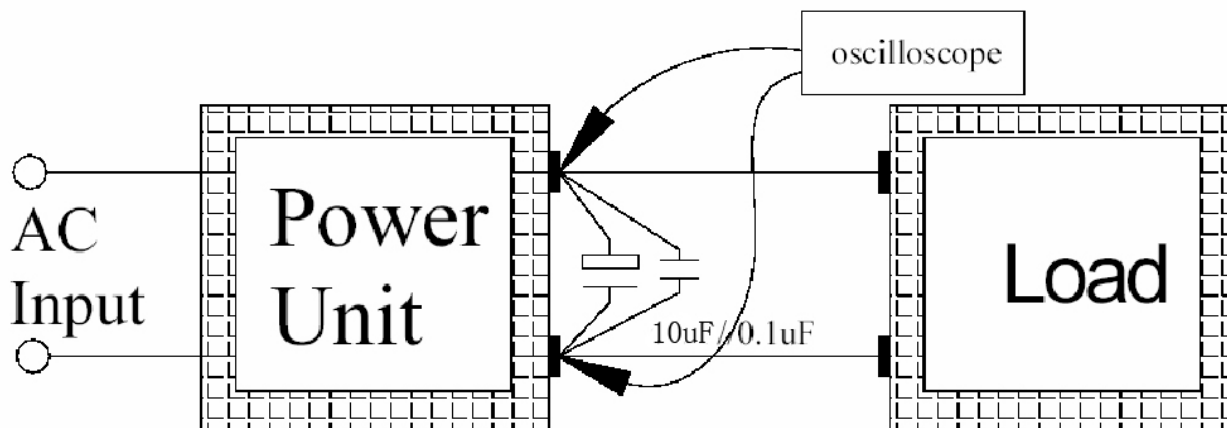
2) Output Rated Voltage:

NO	OUTPUT VOLTAGE	OUTPUT RATED VOLTAGE
NO LOAD	5V	4.75-5.25V
LOAD	5V	4.75-5.25V

3) Output Current: At constant voltage mode 0A
to 2.1A

4) Maximum output power: 10.5W

4) Output Voltage Ripple and Noise: 100-240Vac in/2.1A load
<200mVp-p
(0.1uF ceramic Cap. and 50V
10uF Aluminum Cap. paralleled
between the end of output cable)



1.3 Protection Characteristics

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1) Short Circuit Protection: The adapter can withstand continuous short No broken, no smoke
in at DC output and no damage, it will enter
into normal condition if the fault condition is
removed.

2) Overshoot / Undershoot: 5.25V+10%

3) Over-current protection: 2.2A-2.8A over current protection / With auto-recovery function

1.4 General characteristics

1)Efficiency: (Warm up) Average at 115Vac/60Hz to 230Vac/50Hz, with full load >65%

2) Any protect condition shall cause no damage and no component fail, Automatic recovery when removal

1.5 Environmental Characteristics

1) EMI standard : CISPR-22 CLASS B, Fcc class B , EN55022,PART 15

2) EMS standard :

2.1 Electrostatic Discharge ESD :

±8KV It is refer to EN 61000-4-2, EN55024:1998 Air Electrostatic Discharge :

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Contact Electrostatic Discharge :

±4KV

2.2 Surge :

It is refer to EN 61000-4-5, EN55024:1998

Common mode Surge Immunity :

±2KV

differential mode Surge Immunity :

±1KV

3) Safety standard:

UL			KC	
CE			GS/TUV	
FCC	YES		CB	
BS			CCC	

4) Insulation Resistance:

Between AC input and secondary applied 500Vdc>100M Ω
for 1 minute

5) Dielectric Strength(Hi-Pot):

Between AC input and secondary AC3000V, test No dama
time 1minute,and cut off current shall be less than
5mA, DC 4242V, test time 2 sec. In production line

6) Temperature:

Operating 0 to 40°C

Storage -20 to +60°C

6) Humidity:

Operating 8%~95%

Storage 5%~95%

1.6 Mechanical Characteristics:

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1) Dimension (Length x Width x Height) : 61.5*38.8*63.7mm

2) Adapter weight: 50g (typical)

Case material UL 94V-0 PLASTIC
ABS+PC

3) Input AC plug Type:

DISK TOP IEC320 TYPE C8	---	
DISK TOP IEC320 TYPE 3 PIN	---	
WALL MOUNT US/UL		
WALL MOUNT EUROPE/CE	YES	
WALL MOUNT UK	---	
WALL MOUNT JAPAN	---	
WALL MOUNT BRAZIL	---	
WALL MOUNT KOREA	---	
WALL MOUNT AUSTRALIA	---	

4) Transformer instruction

5) Output DC Cable

5.1 Length NC

5.2 Wire style NC

5.3 Plug NC

5.4 Polarity

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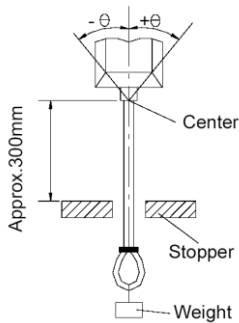
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5.5 Flexibility test

to the



Weight:0g

Angle (θ):90 °

Without damage

Short diameter direction: 1200cycle

cord.

Cycles in every minute: 40

Hang the specified weight and swing it to one direction and return to the original position, then swing to the opposite direction and return to the original position. This constitutes one cycle. The d.c. power supply shall be subjected to the specified cycles a specified speed.

5.6 Strain Relief Test:

shall be

Applied a weight of 9KG to output cord SR,for one minutes,there no broken of other damage result.

6) Drop Test:

Lift this unit a height of 1M onto 20mm thick hardwood, surface one time at 3 directions. the shell should be no opened, and can meet the safety of the withtdand voltage test.

7) Random Vibration Storage: adapter

After vibration test, the

1) Frequency: 10 to 55Hz and return 10Hz

will be turned on normally

2) Overall Grms: 2.31 m/s² (0.236G)

3) Vibration duration: 20minutes

4) Vibration waveform: Random

5) Force Direction X,Y,Z

Operation

1) Frequency: 10 to 55Hz and return 10Hz

2) Overall Grms: 1.16 m/s² (0.118G)

3) Vibration duration: 20minutes

4) Vibration waveform: Random

5) Force Direction X,Y,Z

8) Color:

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Case

Black

DC Cable

Black

1.7 Reliability

- | | | |
|---|--|------------------------------|
| 1) Heat-resistance: The SMPS shall be stored at a temperature of 55+/-2 °C for 16 hours. Then and (Storage) error | it shall be subjected to standard astropheres conditions for 2 hours, after which measurement shall be made. | No distortion
No function |
| 2) Heat resistance: The SMPS shall be placed at a temperature of 25+/-2 °C and operating at (Operation) | full load for 4 hours. Measurement shall be made. The output voltage | No abnormality |
| 3) Cold-resistance: The SMPS shall be stored at a temperature of -20+/-2 °C for 16 hours. and (Storage) error | Then it shall be subjected to standard astropheres conditions for 2 hour, after which measurement shall be made. | No distortion
No function |
| 4) Cold-resistance: The SMPS shall be placed at a temperature of 0+/-2 °C and operating at (Operation) | rate75% full load for 4 hours. Measurement shall be made. The output voltage | No abnormality |
| 5) Body surface temp: at a entironment temperature of 23+/-2 °C , 100VAC/2.1A load | For 2 hours, measure central section of sueface (thermoelectric couple method) | ≤65°C |
| 6) M.T.B.F: | 30K Hours At 25°C With 80% Loading | No abnormality |