SPECIFICATION

High Quality
Switching Desktop Adapter

Universal AC Input
50W 5.0VDC 10.0A Output

P/N: A050100PW1

*** Specification Approval ***

This specification (total 5 pages including cover page) in its entirety is approved by:

Company Name	Print Name	Signature	Date

Specification subject to change without prior notice.

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1. SCOPE

This specification describes the performance characteristics of a grounded, single phase, 50 Watts, Single Output Switching Adapter defines the world wide safety requirements and EMC requirements.

2. INPUT REQUIREMENTS

Description	Min	Typical	Max.	Condition
Input Voltage	90VAC	115/230V	264VAC	Full Range：47/63Hz
Input Current	-	-	2A	90 VAC 50Hz
Line Frequency	47Hz	50/60Hz	63Hz	-
Inrush Current	-	-	40A	230VAC Cold Start
Efficiency	-	70%	-	115VAC at full load

3. OUTPUT CHARACTERISTICS

3.1 STATIC DC LOAD , RIPPLE & NOISE

NOMINAL VOLTAGE	TOTAL REGULATION	OUTPUT CURRENT		RIPPLE & NOISE
		MIN.	MAX.	
+5V	±5%	0.3A	10A	50mV

NOTE：⊙ 20MHz bandwidth ripple & noise is measured by using 0.1uF C.C. & 10uF/50V E.C. bypassed at the output connector.

⊙ Regulation shows the percentage of absolute value of nominal output voltage. The total output should be 50W max.

3.2 HOLD UP TIME

The power supply unit should maintain its proper output voltage within voltage specifications for at least 16 milliseconds after losing input power under the condition of typical input with full loading.

3.3 OVERSHOOT AT TURN-ON/TURN-OFF

Any overshoots during turn-on/turn-off should be less than +/-5% of the voltage regulation tolerance. No voltage of opposite polarity shall be present on any output during turn-on or turn-off.

3.4 TEMPERATURE COEFFICIENT

The temperature coefficient of all outputs is +/-0.05% per degree C maximum.

4. PROTECTION

4.1 OVER VOLTAGE PROTECTION

If any over voltage occurs, the power supply should latch off before any output exceeds its limit below :

NOMINAL VOLTAGE	OVER VOLTAGE RANGE	
	FROM	TO
+5VDC	+5.6VDC	+6.25VDC

The power supply will be automatically recovered after the over voltage fault being removed.

4.2 SHORT CIRCUIT PROTECTION

Short circuit occurred on output should not cause any damage to the power supply but shut down the power supply. The power supply will be automatically recovered after the short circuit being removed.

4.3 OVER LOAD PROTECTION

An over load protection will be effected when overloading reaches 110%~160% Max. load. The power supply will be automatically recovered after the overload being removed.

5. ENVIRONMENT

5.1 OPERATING

Temperature 0 to 40 degree centigrade
Relative Humidity 20 to 90 percent, non-condensing

5.2 SHIPPING AND STORAGE

Temperature -10 to +70 degree centigrade
Relative Humidity 20 to 90 percent, non-condensing

6. SAFETY REQUIREMENTS

The adapter must comply with UL/CSA C22.2-No.60950/TUV/IEC60950 standards.

6.1 DIELECTRIC WITHSTAND

--- Primary to Secondary : 4242 VDC for 2 Sec.
--- Primary to Frame Ground : 2121 VDC for 2 Sec.

6.2 INSULATION RESISTANCE

--- Primary to Secondary : 20 Meg. Ohms Min. 500 VDC.

--- Primary to Frame Ground : 20 Meg. Ohms Min. 500 VDC.

7. ELECTROMAGNETIC COMPABILITY

Tests for conformance to this requirements will be performed with host system.

7.1 FCC Requirements

The adapter shall comply with the FCC "Class B" limits.

7.2 CE Requirements

The adapter shall comply with the "Class B" requirements of EN55022 & EN55024 for EMS.

8. BURN-IN TEST: 100% burn-in tested at max. load under 40 +/-5 degree centigrade.

9. MECHANICAL DIMENSION

9.1 Outside dimension: L153.5 x W84.3 x H52.5mm

9.2 Input connector: IEC320-C14

9.3 Output connector: Depends on your requirements.