

# SPECIFICATION FOR APPROVAL

CUSTOMER: IDEAL

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CUSTOMER P/N:

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SERIES MODEL NO.: SA06-20S05R-V

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PART NO.: SA06-20S06-V-3A

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REV.:

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DESCRIPTION: **Switching Adapter Desk Top (L3P)**  
**100-240Vac±10%,+6V/3.3A(RoHS)**

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ISSUED DATE: April 1, 2011

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PUBLICATION	CONFIRMATION



PART NO.: SA06-20S06-V  
CUSTOMER P/N:  
DESCRIPTION: SWITCHING ADAPTER +6V/3.3A  
ISSUED DATE: July 1, 2010  
REVISION NO.: Original

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00	Initial Released	2010/7/1
REV	DESCRIPTION	DATE

APP. BY	CHK. BY	PRE. BY
Kenny 2010/7/1	Kenny 2010/7/1	Stone 2010/7/1

RD-SPEC/SA06-20S06-V(EPS 2.0)-R00

1.0 INPUT REQUIREMENTS

- 1.1 AC VOLTAGE:  
90Vac TO 265Vac INPUT
- 1.2 FREQUENCY:  
47HZ TO 63HZ
- 1.3 AC CURRENT:  
0.8A MAX.
- 1.4 INRUSH CURRENT:  
60A MAX. AT 230Vac, FULL LOAD, COLD START, 25°C .

2.0 OUTPUT REQUIREMENTS

- 2.1 OUTPUT REGULATION, RIPPLE AND NOISE, CURRENT:

OUTPUT VOLTAGE	OUTPUT TOLERANCE	RIPPLE & NOISE	LOAD	
			MIN	MAX
+ 6Vdc	5.7V~6.3V	(*)60mVp-p	0.0A	3.3A

NOTE: (\*) MEASURING IS DONE BY 20MHZ BANDWIDTH LIMITED OSCILLOSCOPE AND TERMINATED EACH OUTPUT WITH A 0.1uF AND 10uF CAPACITORS

- 2.2 OVERSHOOT:  
OVERSHOOT SHOULD NOT EXCEED 10% OVER NOMINAL VOLTAGE.
- 2.3 RISE TIME:  
50mS MAX.
- 2.4 HOLD-UP TIME:  
10mS MIN. AT 115Vac AND FULL LOAD

3.0 EFFICIENCY

THE UNIT SHOULD PROVIDE DC CONVERSION EFFICIENCY MINIMUM 75% AT FULL LOAD, 115Vac INPUT.

#### 4.0 PROTECTION REQUIREMENTS

##### 4.1 OVER VOLTAGE PROTECTION:

9.6V MAX.

##### 4.2 SHORT CIRCUIT PROTECTION:

THE UNIT SHOULD BE AUTO-RECOVER IN CASE ANY SHORT-CIRCUIT SHOULD OCCUR AT ANY DC OUTPUT.

#### 5.0 ENVIRONMENTAL

##### 5.1 OPERATING:

TEMPERATURE: 0 TO 40°C.

RELATIVE HUMIDITY: 20% TO 80% RH.

##### 5.2 STORAGE:

TEMPERATURE: -20 TO 85°C.

RELATIVE HUMIDITY: 0% TO 90% RH.

#### 6.0 EMI REQUIREMENT

THE SWITCHER DESIGNED TO MEET BELOW STANDARDS.

FCC CLASS B

CNS 13438 CLASS B

CISPR CLASS B

#### 7.0 SAFETY REQUIREMENTS

##### 7.1 SAFETY REGULATION:

THE SWITCHER DESIGNED TO MEET BELOW STANDARDS.

UL 1950, CUL, TUV EN60950.

##### 7.2 OTHERS REGULATION:

MEET CALIFORNIA ENERGY COMMISSION APPLIANCE EFFICIENCY REGULATIONS:

20W: NO-LOAD MODE INPUT <0.3W, ACTIVE MODE EFFICIENCY >81%

##### 7.3 DIELECTRIC STRENGTH:

INPUT AND OUTPUT: 1800Vac(10mA) @ 3 SECOND

INPUT AND FG: 1800Vac(10mA) @ 3 SECOND.

8.0 RELIABILITY

8.1 MTBF: 40000 HOURS.

8.2 B-TEST:

VIBRATION, SHOCK, ALTITUDE, STATIC COMPRESSION, DROP... ETC. PLEASE REFER TO B-TEST PROCEDURE.

9.0 DIMENSIONS

SEE ASSEMBLY DRAWING.

