POWSUN CO.,LTD.

SPECIFICATION FOR APPROVAL

1. FEATURE:

- INPUT :UNIVERSAL 100-240 Vac/47-63 Hz INPUT, WITHOUT ANY SLIDE SWITCH
- OUTPUT :+5V / 0-1A
- DIMENSION :50(D)*38(W)*21(H) mm
- EFFICIENCY :75% TYPICAL
- SAFETY : FCC/CB /CE/ LVD
- EMI :EN55022B
- HIGH FREQUENCY DESIGN, LESS POWER CONSUMPTION
- OVER VOLTAGE PROTECTION, SHORT CIRCUITED PROTECTION, OVER POWER PROTECTION
- CAN BE USED AT TEL COMMUNICATION, COMPUTER, INDUSTRIAL CONTORLLER & OA SYSTEM

2. INPUT:

2. 1 VOLTAGE	UNIVERSAL 100~240Vac,SINGLE PHASE
2. 2 FREQUENCY	47HZ~63HZ
2. 3 CURRENT	0.5A Max
2. 4 INRUSH CURRENT	6A Max/100Vac;12A Max/240Vac (COLD STABT AT 25℃ FULL LOAD)
2. 5 EFFICIENCY	75% TYPICAL (AT NOMINAL LINE VOLTAGE FULL LOAD)
2. 6 INPUT POWER DISSIPATION	UNDER 0.5W < ZERO LOAD 115V/60HZ INPUT
	UNDER 1.0W < ZERO LOAD 230V/50HZ INPUT

3. OUTPUT:

3. 1 DC OUTPUT	VOLTAGE	+5.00V
	CURRENT	1.0A Max 0.85A typ
	REGULATION	4.75V Min~5.0V Typ.~5.25V Max
	RIPPLE & NOISE	50mV Max
	TOTAL POWER	5W Max

NOTE: FOR RIPPLE & NOISE MEASUREMENT, USE A 20MHZ BAND WIDTH FREQUENCY OSCILLOSCOPF, AND ADD A 0.1uF MULTILAYER CAP. AND A LOW ESR ELECTROLYTICCAP. (10uF) AT OUTPUT CONNECTOR TERMINALS. (AT NOMINAL LINE VOLTAGE FULL LOAD)

4. PROTECTION:

4. 1 OVER VOLTAGE PROTECTION	V out*(5.7V-6.2V)
4. 2 SHORT CIRCUIT PROTECTION	AUTOMATIC RECOVERY AFTER SHORT-CIRCUIT FAULT REMOVED
4. 3 OVER POWER PROTECTION	THE ADAPTER PROVIDE PROTECTION AT 110%-140% OF RATED OUTPUT POWER

NOTE: WHEN PROTECTION CIRCUIT IS WORKING THE POWER SUPPLY WILL SHUTDOWN, ONCE THE ABNORMAL CONDITIONS ARE REMOVED. THE POWER SUPPLY WILL RESTART AUTOMATICALLY.

APPROVED BY:	CHECKED BY:	PREPARED BY:

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5. SAFETY AND EMI REQUIREMENT:

5.1 SAFETY REQUIREMENT

a. SAFETY :UL/TUV/CE/CCC/T-MARK

b. DIELECTRIC STRENGTH :10mA Max. CUT OFF CURREN

(1):PRIMARY TO SECONDARY	: 2000Vdc FOR 1 MINUTE
(2):PRIMARY TO FRAME GROUND	: 1500Vac FOR 1 MINUTE

c. INSULAION RESISTANCE:

(1):PRIMARY TO SECONDARY	: 10 M OHMS FOR 500Vdc
(2):PRIMARY TO FRAME GROUND	: 10 M OHMS FOR 500Vdc

5.2 EMI REQUIREMENT MEET CISPR 22/FCC/VCC1, CLASS B

5.3 LEAKAGE CURRENT LESS THAN 3.5mA

6.OPERTION & ENVIRONMENT PERFORMANCE:

6.1 TEMPERATURE RANGE

OPERATING	0℃ ~ +40℃
STORAGE	-40℃ ~+70℃

6.2 HUMIDITY RANGE (NON CONDENSING)

OPERATING	10% ~ 90% RH
STORAGE	5% ~ 95% RH

6.3 COOLING SHOULD OPERATE WITHOUT FAN

7.M.T.B.F.: 50000 HOURS Min ; 40℃ SEE CONDITION

8.MECHANICAL:

8.1 WEIGHT: 95g Typ.

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(I). LINE REGULATION TEST

Test result:

Test condition	Spec.	Reading1	Reading2	Reading3
90Vac / 50% load	4.75~5.25V	5.10V		
115Vac / 50% load	4.75~5.25V	5.10V		
132Vac / 50% load	4.75~5.25V	5.10V		
180Vac / 50% load	4.75~5.25V	5.10V		
230Vac / 50% load	4.75~5.25V	5.10V		
264Vac / 50% load	4.75~5.25V	5.10V		

(II). EFFICENCY TEST

Test result:

Test condition	Spec.	Reading1	Reading2	Reading3
115Vac / 100% load	75% Typical	75%		
230Vac / 100% load	75% Typical	74%		

(III). LOAD REGULATION TEST

Test result:

Test condition	Spec.	Reading1	Reading2	Reading3
115Vac / 0% load	4.75~5.25V	5.21V		
115Vac / 50% load	4.75~5.25V	5.10V		
115Vac / 100% load	4.75~5.25V	5.0V		
230Vac / 0% load	4.75~5.25V	5.21V		
230Vac / 50% load	4.75~5.25V	5.10V		
230Vac / 100% load	4.75~5.25V	5.0V		

(IV).RIPPLE & NOISE TEST

Test result:

Test condition	Spec.	Reading1	Reading2	Reading3
115Vac / 100% load	50mV Max	45mV		
230Vac / 100% load	50mV Max	30mV		

(VI). OVER VOLTAGE PROTECTION

Test result:

Test condition	Spec.	Reading1	Reading2	Readimg3
115Vac / 100% load	Vout*(110%~140%)	115%		
230Vac / 100% load	Vout*(110%~140%)	125%		

(VII). RISE TIME

Test result:

Test condition	Spec.	Reading1	Reading2	Reading3
115Vac / 100% load	70mS Max	30mS		
230Vac / 100% load	70mS Max	20mS		

(VIII). OVER CURRENT PROTECTION

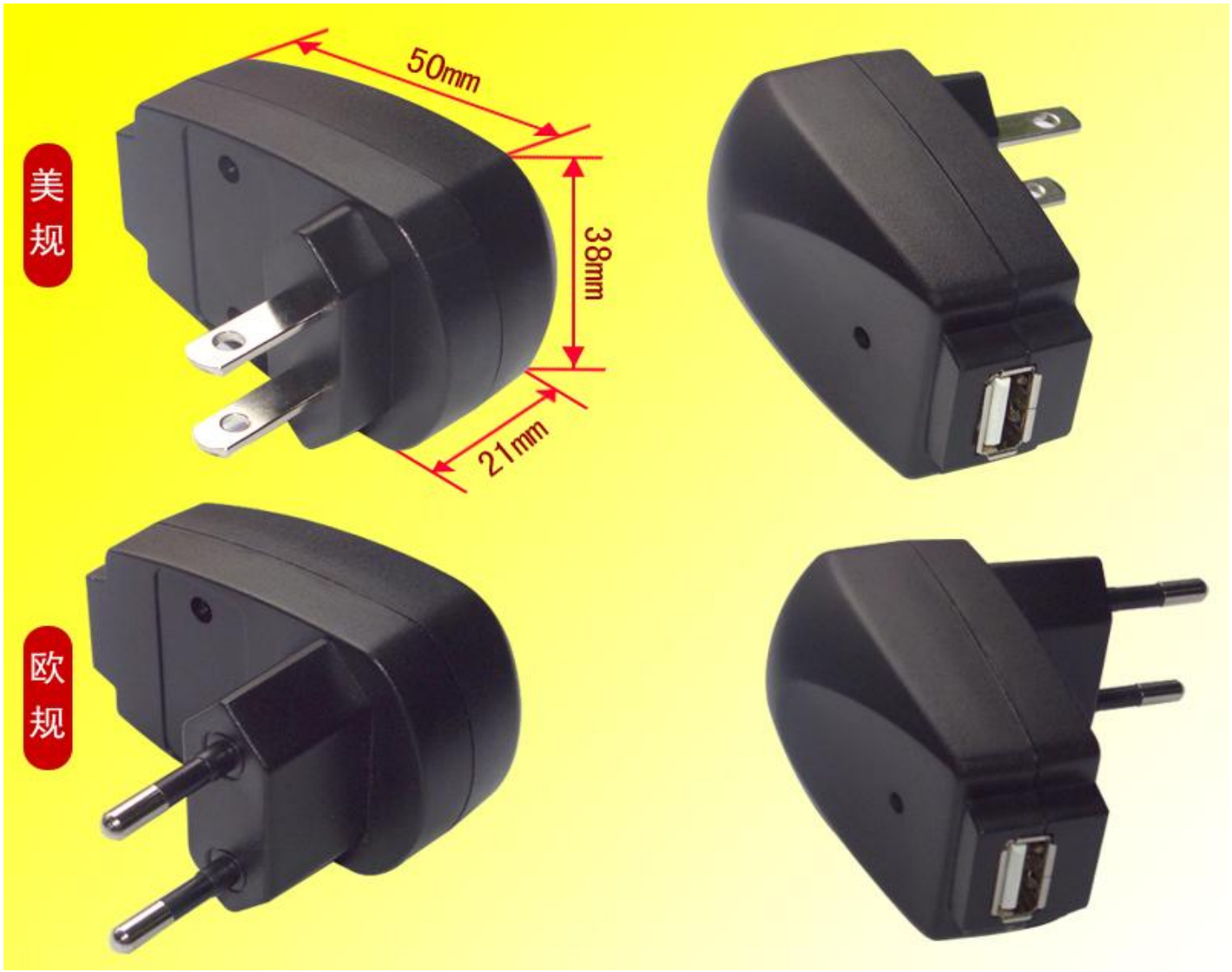
Test result:

Test condition	Spec.	Reading1	Reading2	Readimg3
115Vac / 100% load	Iout*(101%~160%)	120%		
230Vac / 100% load	Iout*(101%~140%)	128%		

(IX). SHORT CIRCUIT PROTECTION

Test result:

Test condition	Spec.	Reading1	Reading2	Readimg3
115Vac / 100% load	Under 0.8W	OK		
230Vac / 100% load	Under 1.0W	OK		


美规
50mm
38mm
21mm
欧规