

承認書

Specification For Approval

COMPANY NAME	
CUSTOMER P/N	
PRODUCT NAME	AC/DC ADAPTER
PARTS P/N	CP1205
DATE	2009-9-19

APPROVED BY	CHECKED BY	PREPARED BY	CUSTOMER APPROVAL SIGNATURE

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1. FEATURE:

- INPUT :UNIVERSAL 100-240 Vac/47-63 HZ INPUT, WITHOUT ANY SLIDE SWITCH
- OUTPUT :+12V / 2A; +5V / 2A
- DIMENSION :127(D)*48(W)*32(H) mm
- EFFICIENCY :82% TYPICAL
- SAFETY :UL/BSMI/CB//CE/ CCC /C-Tick/DOFT/PSE
- EMI :CISPR 22 /FCC /VCCI CLASS B; CONDUCTED & RADIATED MEETED
- 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	1.8A Max
2.4 INRUSH CURRENT	25A Max /100Vac; 50A Max /240Vac (COLD STABT AT 25°C FULL LOAD)
2.5 EFFICIENCY	82% TYPICAL (AT NOMINAL LINE VOLTAGE FULL LOAD)

3. OUTPUT:

3.1 DC OUTPUT	VOLTAGE	+12.00V	+5.00V
	CURRENT	2A Max	2A Max
	REGULATION	11.4V Min~12.0V Typ~12.6V Max	4.75V Min~5.0V Typ~5.25V Max
	RIPPLE & NOISE	120mV Max	50mV Max
	TOTAL POWER	34W Max	

NOTE: FOR RIPPLE & NOISE MEASUREMENT, USE A 20MHZ BAND WIDTH FREQUENCY OSCILLOSCOPE, 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	$V_{out}*(110\%-140\%)$
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.

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5. SAFETY AND EMI REQUIREMENT:

5.1 SAFETY REQUIREMENT

- a. SAFETY : UL/BSMI/CB//CE/CCC/C-Tick/DOFT/PSE
- b. DIELECTRIC STRENGTH :10mA Max. CUT OFF CURRENT

(1):PRIMARY TO SECONDARY	: 3000Vac FOR 1 MINUTE
(2):PRIMARY TO FRAME GROUND	: 1500Vac FOR 1 MINUTE

- c. INSULATION 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 5mA

6.OPERATION & ENVIRONMENT PERFORMANCE:

6.1 TEMPERATURE RANGE

OPERATING	0°C ~ +40°C
STORAGE	-40°C ~+70°C

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°C SEE CONDITION

TEST REPORT

(I). EFFICIENCY TEST

Test result:

Test condition	Reading
115Vac / 100% load	81%
230Vac / 100% load	80%

(II).RIPPLE & NOISE TEST

Test result:

Test condition	Reading	
	+12V	60mV
100Vac / 100% load	+5V	30mV
	+12V	50mV
130Vac / 100% load	+5V	20mV
	+12V	50mV
200Vac / 100% load	+5V	20mV
	+12V	50mV
260Vac / 100% load	+5V	20mV

(III). RISE TIME

Test result:

Test condition	Reading
115Vac / 100% load	22mS
230Vac / 100% load	28mS

(V). OVER CURRENT PROTECTION

Test result:

Test condition	Reading
115Vac / 100% load	118%
230Vac / 100% load	128%

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(VI). SHORT CIRCUIT PROTECTION

Test result:

Test condition	Reading
115Vac / 100% load	115%
230Vac / 100% load	125%

(VII). LINE REGULATION TEST

Test result:

Test condition	Reading	
90Vac / 50% load	+12V	12.15V
	+5V	4.97V
115Vac / 50% load	+12V	12.15V
	+5V	4.97V
132Vac / 50% load	+12V	12.15V
	+5V	4.97V
180Vac / 50% load	+12V	12.15V
	+5V	4.97V
230Vac / 50% load	+12V	12.15V
	+5V	4.97V
264Vac / 50% load	+12V	12.15V
	+5V	4.97V

(VIII). LOAD REGULATION TEST

Test result:

Test condition	Reading	
115Vac / 0% load	+12V	12.23V
	+5V	5.15V
115Vac / 50% load	+12V	12.15V
	+5V	4.97V
115Vac / 100% load	+12V	12.05V
	+5V	4.79V
230Vac / 0% load	+12V	12.23V
	+5V	5.15V
230Vac / 50% load	+12V	12.15V
	+5V	4.97V
230Vac / 100% load	+12V	12.03V
	+5V	4.79V

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