



NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT														
10	RIPPLE&NOISE	I/P:230VAC O/P:FULL LOAD SPEC: A: 100mV B: 150mV C: 150mV D: 150mV E: 150mV F: 150mV G: 200mV	A: 37 mV B: 97 mV C: 52 mV D: 44 mV E: 61 mV F: 77 mV G: 124 mV	P														
11	AC INPUT CURRENT	I/P:230VAC O/P:FULL LOAD SPEC:3.5A	A: 2.3 A B: 2.6 A C: 2.61 A D: 2.61 A E: 2.58 A F: 2.56 A G: 2.58 A	P														
12	EFFICIENCY	I/P:230VAC O/P:FULL LOAD SPEC: A:76% B:82% C:82% D:82% E:84% F:84% G:86%	A: 76.33 % B: 85.16 % C: 84.98 % D: 84.17 % E: 85.99 % F: 86.5 % G: 86.85 %	P														
13	POWER GOOD SINGLE	I/P:230VAC O/P:FULL LOAD SPEC:10mS	A: 62.4 mS B: 50.6 mS C: 46.4 mS D: 54.6 mS E: 45.1 mS F: 58.7 mS G: 53.4 mS	P														
14	POWER FAIL SINGLE	I/P:230VAC O/P:FULL LOAD SPEC:1mS	A: 1.7 mS B: 9.1 mS C: 41.5 mS D: 20.2 mS E: 18.9 mS F: 17.3 mS G: 19.3 mS	P														
15	O/P VOLTAGE ADJ.RANGE	I/P:230VAC O/P:MIN. LOAD SPEC: A: 4.75 V ~ 5.5 V B: 10 V ~ 13.2 V C: 12 V ~ 15 V D: 13.5 V ~ 18 V E: 20 V ~ 26.4 V F: 24 V ~ 30 V G: 41 V ~ 56 V	A. 4.22 V ~ 6.29 V B. 9.04 V ~ 13.84 V C. 10.4 V ~ 16.1 V D. 12.7 V ~ 19.26 V E. 18.93 V ~ 27.79 V F. 21.79 V ~ 32.09 V G. 39.29 V ~ 58.18 V	P														
16	GROUND LEAKAGE CURRENT	I/P:240VAC SPEC: L-FG-<1mA N-FG-<1mA	<table border="1"> <tbody> <tr> <td>A:</td> <td>L-FG: 0.48mA N-FG: 0.48mA</td> </tr> <tr> <td>B:</td> <td>L-FG: 0.62mA N-FG: 0.6mA</td> </tr> <tr> <td>C:</td> <td>L-FG: 0.52mA N-FG: 0.5mA</td> </tr> <tr> <td>D:</td> <td>L-FG: 0.55mA N-FG: 0.5mA</td> </tr> <tr> <td>E:</td> <td>L-FG: 0.08mA N-FG: 0.08mA</td> </tr> <tr> <td>F:</td> <td>L-FG: 0.5mA N-FG: 0.5mA</td> </tr> <tr> <td>G:</td> <td>L-FG: 0.55mA N-FG: 0.54mA</td> </tr> </tbody> </table>	A:	L-FG: 0.48mA N-FG: 0.48mA	B:	L-FG: 0.62mA N-FG: 0.6mA	C:	L-FG: 0.52mA N-FG: 0.5mA	D:	L-FG: 0.55mA N-FG: 0.5mA	E:	L-FG: 0.08mA N-FG: 0.08mA	F:	L-FG: 0.5mA N-FG: 0.5mA	G:	L-FG: 0.55mA N-FG: 0.54mA	P
A:	L-FG: 0.48mA N-FG: 0.48mA																	
B:	L-FG: 0.62mA N-FG: 0.6mA																	
C:	L-FG: 0.52mA N-FG: 0.5mA																	
D:	L-FG: 0.55mA N-FG: 0.5mA																	
E:	L-FG: 0.08mA N-FG: 0.08mA																	
F:	L-FG: 0.5mA N-FG: 0.5mA																	
G:	L-FG: 0.55mA N-FG: 0.54mA																	

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT																																																															
17	DIELECTRIC / WITHSTAND VOLTAGE	SPEC: I/P- O/P: 3KVAC/ 1 min. (10mA CUT-OFF) I/P - FG: 1.5KVDC/ 1 min. (10mA CUT-OFF) O/P -FG: 0.5KVDC/ 1 min. (10mA CUT-OFF)	<table border="1"> <tr> <td>A:</td> <td>I/P-O/P:</td> <td>1.107mA</td> </tr> <tr> <td></td> <td>I/P-FG:</td> <td>3.56mA</td> </tr> <tr> <td></td> <td>O/P-FG:</td> <td>14.9mA</td> </tr> <tr> <td>B:</td> <td>I/P-O/P:</td> <td>1.09mA</td> </tr> <tr> <td></td> <td>I/P-FG:</td> <td>3.08mA</td> </tr> <tr> <td></td> <td>O/P-FG:</td> <td>14.95mA</td> </tr> <tr> <td>C:</td> <td>I/P-O/P:</td> <td>0.733mA</td> </tr> <tr> <td></td> <td>I/P-FG:</td> <td>2.213mA</td> </tr> <tr> <td></td> <td>O/P-FG:</td> <td>15.16mA</td> </tr> <tr> <td>D:</td> <td>I/P-O/P:</td> <td>0.79mA</td> </tr> <tr> <td></td> <td>I/P-FG:</td> <td>3.05mA</td> </tr> <tr> <td></td> <td>O/P-FG:</td> <td>15.29mA</td> </tr> <tr> <td>E:</td> <td>I/P-O/P:</td> <td>0.962mA</td> </tr> <tr> <td></td> <td>I/P-FG:</td> <td>0.438mA</td> </tr> <tr> <td></td> <td>O/P-FG:</td> <td>15.29mA</td> </tr> <tr> <td>F:</td> <td>I/P-O/P:</td> <td>0.975mA</td> </tr> <tr> <td></td> <td>I/P-FG:</td> <td>0.125mA</td> </tr> <tr> <td></td> <td>O/P-FG:</td> <td>0.098mA</td> </tr> <tr> <td>G:</td> <td>I/P-O/P:</td> <td>1.311mA</td> </tr> <tr> <td></td> <td>I/P-FG:</td> <td>3.700mA</td> </tr> <tr> <td></td> <td>O/P-FG:</td> <td>15.13mA</td> </tr> </table>	A:	I/P-O/P:	1.107mA		I/P-FG:	3.56mA		O/P-FG:	14.9mA	B:	I/P-O/P:	1.09mA		I/P-FG:	3.08mA		O/P-FG:	14.95mA	C:	I/P-O/P:	0.733mA		I/P-FG:	2.213mA		O/P-FG:	15.16mA	D:	I/P-O/P:	0.79mA		I/P-FG:	3.05mA		O/P-FG:	15.29mA	E:	I/P-O/P:	0.962mA		I/P-FG:	0.438mA		O/P-FG:	15.29mA	F:	I/P-O/P:	0.975mA		I/P-FG:	0.125mA		O/P-FG:	0.098mA	G:	I/P-O/P:	1.311mA		I/P-FG:	3.700mA		O/P-FG:	15.13mA	P
A:	I/P-O/P:	1.107mA																																																																	
	I/P-FG:	3.56mA																																																																	
	O/P-FG:	14.9mA																																																																	
B:	I/P-O/P:	1.09mA																																																																	
	I/P-FG:	3.08mA																																																																	
	O/P-FG:	14.95mA																																																																	
C:	I/P-O/P:	0.733mA																																																																	
	I/P-FG:	2.213mA																																																																	
	O/P-FG:	15.16mA																																																																	
D:	I/P-O/P:	0.79mA																																																																	
	I/P-FG:	3.05mA																																																																	
	O/P-FG:	15.29mA																																																																	
E:	I/P-O/P:	0.962mA																																																																	
	I/P-FG:	0.438mA																																																																	
	O/P-FG:	15.29mA																																																																	
F:	I/P-O/P:	0.975mA																																																																	
	I/P-FG:	0.125mA																																																																	
	O/P-FG:	0.098mA																																																																	
G:	I/P-O/P:	1.311mA																																																																	
	I/P-FG:	3.700mA																																																																	
	O/P-FG:	15.13mA																																																																	
18	INSULATION RESISTANCE	SPEC: I/P-O/P: 500VDC/100MOhms MIN. I/P-FG: 500VDC/100MOhms MIN. O/P-FG: 500VDC/100MOhms MIN.	<table border="1"> <tr> <td>A:</td> <td>TEST OK</td> </tr> <tr> <td>B:</td> <td>TEST OK</td> </tr> <tr> <td>C:</td> <td>TEST OK</td> </tr> <tr> <td>D:</td> <td>TEST OK</td> </tr> <tr> <td>E:</td> <td>TEST OK</td> </tr> <tr> <td>F:</td> <td>TEST OK</td> </tr> <tr> <td>G:</td> <td>TEST OK</td> </tr> </table>	A:	TEST OK	B:	TEST OK	C:	TEST OK	D:	TEST OK	E:	TEST OK	F:	TEST OK	G:	TEST OK	P																																																	
A:	TEST OK																																																																		
B:	TEST OK																																																																		
C:	TEST OK																																																																		
D:	TEST OK																																																																		
E:	TEST OK																																																																		
F:	TEST OK																																																																		
G:	TEST OK																																																																		
19	REMOTE CONTROL	I/P:230V O/P:FULL LOAD SPEC: 0V~0.8V POWER ON 4V~10V POWER OFF	<table border="1"> <tr> <td></td> <td>POWER ON</td> <td>POWER OFF</td> </tr> <tr> <td>A:</td> <td>OK</td> <td>OK</td> </tr> <tr> <td>B:</td> <td>OK</td> <td>OK</td> </tr> <tr> <td>C:</td> <td>OK</td> <td>OK</td> </tr> <tr> <td>D:</td> <td>OK</td> <td>OK</td> </tr> <tr> <td>E:</td> <td>OK</td> <td>OK</td> </tr> <tr> <td>F:</td> <td>OK</td> <td>OK</td> </tr> <tr> <td>G:</td> <td>OK</td> <td>OK</td> </tr> </table>		POWER ON	POWER OFF	A:	OK	OK	B:	OK	OK	C:	OK	OK	D:	OK	OK	E:	OK	OK	F:	OK	OK	G:	OK	OK	P																																							
	POWER ON	POWER OFF																																																																	
A:	OK	OK																																																																	
B:	OK	OK																																																																	
C:	OK	OK																																																																	
D:	OK	OK																																																																	
E:	OK	OK																																																																	
F:	OK	OK																																																																	
G:	OK	OK																																																																	
20	BURN-IN TEST	I/P: 230VAC O/P: FULL LOAD TA:30.8°C BURN-IN DURATION : 15 hrs	F:NON BREAK	P																																																															
21	ENVIRONMENT TEST (SAMPLE F:)	1.LOW TEMPERATURE TEST I/P:230VAC O/P:FULL LOAD AMBIENT TEMPERATURE:-10 °C 2.HIGH AMBIENT TEMPERATURE FULL LOAD TEST I/P:230VAC O/P:FULL LOAD AMBIENT TEMPERATURE: 51 °C 3.High Humidity High Voltage On/Off Test I/P:267VAC O/P:FULL LOAD AMBIENT TEMPERATURE: 25.7 °C AMBIENT HUMIDITY:95%	AFTER 2.5 hrs POWER ON OK AFTER 3 hrs NON BREAK AFTER 14 hrs POWER ON NON BREAK	P																																																															

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT																																				
22	TEMPERATURE RISE TEST Trise OF PARTS	<p>F: I/P :230VAC                      AFTER 15 hr BURN-IN O/P :FULL LOAD                      TA:30.8°C</p> <table border="1"> <thead> <tr> <th>POSITION</th> <th>P/N</th> <th>TEMP</th> <th>Trise</th> </tr> </thead> <tbody> <tr> <td>BD1</td> <td>BRIDGE DIODE</td> <td>60.3°C</td> <td>29.5°C</td> </tr> <tr> <td>Q1</td> <td>MAIN TRANSISTOR</td> <td>65.9°C</td> <td>35.1°C</td> </tr> <tr> <td>T1</td> <td>MAIN TRANSFORMER WIRE</td> <td>67.7°C</td> <td>36.9°C</td> </tr> <tr> <td>D63</td> <td>O/P DIODE</td> <td>51.6°C</td> <td>20.8°C</td> </tr> <tr> <td>C64</td> <td>O/P FILTER CAPACITOR</td> <td>45.0°C</td> <td>14.2°C</td> </tr> <tr> <td>L1</td> <td>O/P CHOCK</td> <td>56.6°C</td> <td>25.8°C</td> </tr> <tr> <td>C5</td> <td>I/P FILTER CAPACITOR</td> <td>51.9°C</td> <td>21.1°C</td> </tr> <tr> <td>LF1</td> <td>I/P FILTER TRANSFORMER</td> <td>48.3°C</td> <td>17.5°C</td> </tr> </tbody> </table>	POSITION	P/N	TEMP	Trise	BD1	BRIDGE DIODE	60.3°C	29.5°C	Q1	MAIN TRANSISTOR	65.9°C	35.1°C	T1	MAIN TRANSFORMER WIRE	67.7°C	36.9°C	D63	O/P DIODE	51.6°C	20.8°C	C64	O/P FILTER CAPACITOR	45.0°C	14.2°C	L1	O/P CHOCK	56.6°C	25.8°C	C5	I/P FILTER CAPACITOR	51.9°C	21.1°C	LF1	I/P FILTER TRANSFORMER	48.3°C	17.5°C		P
POSITION	P/N	TEMP	Trise																																					
BD1	BRIDGE DIODE	60.3°C	29.5°C																																					
Q1	MAIN TRANSISTOR	65.9°C	35.1°C																																					
T1	MAIN TRANSFORMER WIRE	67.7°C	36.9°C																																					
D63	O/P DIODE	51.6°C	20.8°C																																					
C64	O/P FILTER CAPACITOR	45.0°C	14.2°C																																					
L1	O/P CHOCK	56.6°C	25.8°C																																					
C5	I/P FILTER CAPACITOR	51.9°C	21.1°C																																					
LF1	I/P FILTER TRANSFORMER	48.3°C	17.5°C																																					

23	CRITICAL COMPONENT RECORD ( FOR QC INSPECTION REFERENCE ONLY )	<p>F: FUSE :10A/250V BRIDGE DIODE :GBJ2506 25A/600V LINE FILTER :LF 36T40060V TRANSFOMER TF-647-R3 ETD-44 POWER SWITCHER :IRFP460 20A/500V OUTPUT DIODE :ESAD92-02 20A/200V OUTPUT CAPACITOR :RUBYCON 1000uF/35V 105°C YXG INPUT CAPACITOR :HITACH 470uF/400V 85°C P.C.B :PSP-500-R1 FR-4 20Z DS</p>		
----	--	--	--	--

24	LIFE CYCLE	<p>F: SUPPOSE C64 IS THE MOST CRITICAL COMPONENT I/P:230VAC O/P:FULL LOAD Ta:25°C Tc64:45.0°C Life: 582152hrs I/P:230VAC O/P:FULL LOAD Ta:50°C Tc64:61.8°C Life: 131192hrs</p>		P
----	------------	--	--	---

DATE	SAMPLE	TEST RESULT	TEST	APPROVAL
20010402	RD SAMPLE 12V,13.5V,15V 24V,27V,48V	PASS	VINCENT	MAX LIN
20010520	PRODUCTION SAMPLE A104B23 5V,12V,13.5V 15V,24V,27V,48V	PASS	VINCENT	MAX LIN
20010912	PRODUCTION SAMPLE A107B24 12V,15V,27V	PASS	VINCENT	MAX LIN
20010925	PRODUCTION SAMPLE A108C27A 5V,13V,24V,48V	PASS	VINCENT	MAX LIN
20010930	PRODUCTION SAMPLE A1109C22 13.5V	PASS	VINCENT	MAX LIN
20011015	PRODUCTION SAMPLE A110A20 27V	PASS	VINCENT	MAX LIN
20011115	PRODUCTION SAMPLE A110C20 48V	PASS	VINCENT	MAX LIN