

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT
9	SET UP TIME	I/P:230VAC O/P:FULL LOAD SPEC:200mS	C: 24.058mS	P
10	HOLD UP TIME	I/P:230VAC O/P:FULL LOAD SPEC:20mS	C: 40.02mS	P
11	EFFICIENCY	I/P:230VAC O/P:FULL LOAD SPEC: A:74% B:79% C:80% D:81% E:83% F:83% G:84%	A:76.3% B:82.0% C:82.41% D:83.6% E:85.1% F:85.0% G:86.1%	P
12	OVER LOAD PROTECTION	I/P:230VAC O/P:TESTING SPEC: 105%~135%	A:122% B:107.5% C:123% D:122% E:115% F:117% G:124.4%	P
13	OVER VOLTAGE PROTECTION	I/P:230VAC O/P:TESTING SPEC: A:5.75V~6.75V B:9.4V~10.9V C:13.8V~16.2V D:18V~21V E:27.6V~32.4V F:33.7V~39.2V G:57.6V~67.2V	A:6.17V B:10.2V C:15.05V D:18.7V E:29.9V F:35.5V G:62.5V	P
14	OVER TEMPERATURE PROTECTION & FAN ON/OFF TEST	I/P:230VAC O/P:FULL LOAD SPEC: OTP : RTH3> = 90°C	A: OTP : 84°C	P
15	GROUND LEAKAGE CURRENT	I/P:240VAC SPEC: L-FG--<3.5mA N-FG--<3.5mA	C: L-FG:1.0mA N-FG:1.0mA	P
16	GROUNDING CONTINUITY	SPEC: FG-CHASSIS<0.1 Ohms/2 MIN.	C: 12 m Ohms	P
17	INSULATION RESISTANCE	SPEC: I/P-O/P: 500VDC/100M Ohms MIN. I/P-FG: 500VDC/100M Ohms MIN. O/P-FG: 500VDC/100M Ohms MIN.	C: O/P-FG >100M Ohms I/P-O/P >100M Ohms I/P-FG >100M Ohms	P
18	HARMONICS	SPEC:230VAC. O/P:FULL LOAD EN 61000-3,2 CLASS A	A:CLASS A	P
19	DIELECTRIC / WITHSTAND VOLTAGE	SPEC: I/P- O/P: 1.5KVAC/ 1 min. (10mA CUT-OFF) I/P - FG: 1.5KVAC/ 1 min. (10mA CUT-OFF) O/P -FG: 0.5KVAC/ 1 min. (10mA CUT-OFF)	C I/P-O/P 3.9mA I/P-FG 4.59mA O/P-FG 3.67mA	P
20	EMS TEST	EFT TEST: EN50082-1 IEC1000-4-4	G: CRITERIA A OK	P
		SURGE TEST: EN50082-1 IEC1000-4-5	G: CRITERIA A OK	P
21	ESD TEST	ESD TEST: EN50082-2 IEC1400-4-2	G: CRITERIA A OK	P
22	BURN-IN TEST	I/P: 230VAC O/P: FULL LOAD TA:26.9°C BURN-IN DURATION : 1.5 hrs	A:NON BREAK	P
23	ENVIRONMENT TEST	C:1.LOW TEMPERATURE TEST I/P:230 VAC O/P:FULL LOAD AMBIENT TEMPERATURE:-10.0°C With Cooling FAN	C:AFTER 2hrs POWER ON OK	P
		2.HIGH AMBIENT TEMPERATURE FULL LOAD TEST I/P:230 VAC O/P:FULL LOAD AMBIENT TEMPERATURE:43.5°C With Cooling FAN	C:AFTER 5hrs NON BREAK	
		3.HIGH HUMIDITY HIGH VOLTAGE ON/OFF TEST I/P:272 VAC O/P:FULL LOAD AMBIENT TEMPERATURE:25°C AMBIENT HUMIDITY:95%	C:AFTER 18.5 hrs POWER ON/OFF OK	

24	TEMPERATURE RISE TESTT rise OF PARTS	A: I/P :230VAC AFTER 12 hrs BURN-IN WITH 21.7CFM O/P :FULL LOAD TA:27.8°C			
		POSITION	P/N	TEMP	T rise
		BD1	BRIDGE DIODE	61.9°C	34.1°C
		Q2	MAIN TRANSISTOR	48.4°C	20.6°C
		T1	MAIN TRANSFORMER COIL	53.3°C	25.5°C
		T1	MAIN TRANSFORMER CORE	57°C	29.2°C
		D13	O/P DIODE	74.9°C	47.1°C
		C34	O/P FILTER CAPACITOR	42.8°C	15°C
		L1	O/P CHOCK	69.2°C	41.4°C
		C5	I/P FILTER CAPACITOR	37.9°C	10.1°C
		RTH3	THERMISTOR	52°C	24.2°C
		T2	TRANSFORMER COIL	35.1°C	7.3°C
		RG1	REGULATOR	42.6°C	14.8°C
		LF1	I/P FILTER TRANSFORMER	50.4°C	22.6°C
R3	RESISTANCE	57.7°C	29.9°C		
R53	RESISTANCE	57.9°C	30.1°C		

25	LIFE CYCLE	C: SUPPOSE C34 IS THE MOST CRITICAL COMPONENT WITH 21.7CFM COOLING FAN I/P:230VAC O/P:FULL LOAD Ta:25°C Tc34:40°C Life:216286hrs I/P:230VAC O/P:FULL LOAD Ta:40°C Tc34:53.6°C Life:84261hrs	P
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26	CRITICAL COMPONENT RECORD (FOR QC INSPECTION REFERENCE ONLY)	A: FUSE : 6.3L/250V BRIDGE DIODE : D10XB60 10A/600V LINE FILTER : TF-360 ET-28 TRANSFOMER : TF-620 ETD-39 POWER SWITCHER : 2SK3306 10A/400V TO-3P OUTPUT DIODE : ESAD83004 30A/40V TO-3P OUTPUT CAPACITOR : (V) 3300uF/16V 105°C L INPUT CAPACITOR : HITACHI 470uF/200V 85°C HP3 P.C.B : S-350-R4 CEM-1 2OZ SS
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DATE	SAMPLE	TEST RESULT	TEST	APPROVAL
19990624	RD SAMPLE S-201 7.5,12,27V	PASS	H.C.LIOU	MAX LIN
19990720	PRDUCTION SAMPLE S-201 5,7.5,12,15,24,48V	PASS	H.C.LIOU	MAX LIN
19991109	PRDUCTION SAMPLE 9911A30 5,12,15,24V	PASS	C.C.CHEN	MAX LIN
20000316	PRDUCTION SAMPLE A003B01 12V	PASS	VINCENT	MAX LIN
20001206	PRDUCTION SAMPLE A209E32 12V	PASS	VINCENT	MAX LIN