

MODEL : PS-35-48

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	RIPPLE & NOISE	V1: 240 mVp-p (Max)	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	V1: 14 mVp-p (Max)	P
2	OUTPUT VOLTAGE ADJUST RANGE	CH1: 43.2 V- 52.8 V	I/P: 230 VAC I/P:115VAC O/P:MIN LOAD Ta:25°C	40.94V-53.79 V/230vAC 41.02V-53.81 V/115VAC	P
3	OUTPUT VOLTAGE TOLERANCE	V1: +1%~ -1 % (Max)	I/P: 100VAC / 264 VAC O/P:FULL/ 0 % LOAD Ta:25°C	V1: -0.04 %~ 0.08 %	P
4	LINE REGULATION	V1: -0.5%~ 0.5 % (Max)	I/P: 100 VAC ~ 264VAC O/P:FULL LOAD Ta:25°C	V1: -0.01 %~ 0.06 %	P
5	LOAD REGULATION	V1: -0.5%~ 0.05 % (Max)	I/P: 230 VAC O/P:FULL -MIN LOAD Ta:25°C	V1: 0 %~ 0.08 %	P
6	SET UP TIME	230VAC/ 1200 ms (Max) 115VAC/ 1200 ms (Max)	I/P: 230 VAC I/P: 115 VAC O/P:FULL LOAD Ta:25°C	230 VAC/213.59 ms 115 VAC/ 203.01 ms	P
7	RISE TIME	230VAC/30 ms (Max) 115 VAC/30 ms (Max)	I/P: 230 VAC I/P: 115 VAC O/P:FULL LOAD Ta:25°C	230 VAC/20.905 ms 115 VAC/20.301 ms	P
8	HOLD UP TIME	230VAC/50 ms (Typ) 115VAC/10 ms (Typ)	I/P: 230 VAC I/P: 115 VAC O/P:FULL LOAD Ta:25°C	230VAC/ 79.29ms 115 VAC/17.76 ms	P
9	OVER/UNDERSHOOT TEST	< ±5%	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	TEST:0.63%	P
10	DYNAMIC LOAD	V1: 4800 mVp-p	I/P: 230 VAC O/P:FULL /Min LOAD 90%DUTY/1KHZ Ta:25°C	154 mVp-p	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	INPUT VOLTAGE RANGE	90VAC~ 264 VAC (Typ)	I/P:TESTING O/P:FULL LOAD Ta:25°C	63.775 V~ 264 V	P
			I/P: LOW-LINE-3V=97 V HIGH-LINE+15%= 300 V O/P:FULL/MIN LOAD ON: 30 Sec . OFF: 30 Sec 10MIN (AC POWER ON/OFF NO DAMAGE)	TEST: OK	
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ (Typ) NO DAMAGE OSC	I/P: 100 VAC ~264 VAC O/P:FULL-MIN LOAD Ta:25°C	TEST: OK	P
3	EFFICIENCY	84 % (TYP)	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	84.4 %	P
4	INPUT CURRENT	230 V/ 0.5 A (Typ) 115 V/ 0.75 A (Typ)	I/P: 230 VAC I/P: 115 VAC O/P:FULL LOAD Ta:25°C	I = 0.39 A/ 230VAC I = 0.66 A/ 115VAC	P
5	INRUSH CURRENT	230 V/ 45 A (Typ) 115 V/ 23 A (Typ) COLD START	I/P: 230 VAC I/P: 115 VAC O/P:FULL LOAD Ta:25°C	I = 30.69 A/ 230VAC I = 15.328 A/ 115VAC	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	105%- 150 % (Typ)	I/P: 115VAC I/P: 230 VAC O/P:TESTING Ta:25°C	115VAC / 129.% 230VAC / 121% Hiccup Mode	P
2	OVER VOLTAGE PROTECTION	CH1: 55.2 V~ 62.4 V(Typ)	I/P: 115VAC I/P: 230 VAC O/P:MIN LOAD Ta:25°C	56.4 V/ 115VAC 56.4 V/ 230VAC Shunt down Re- power ON	P
3	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 264 VAC O/P: 100% LOAD Ta:25°C	NO DAMAGE Hiccup Mode	P

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	WITHSTAND VOLTAGE	I/P-O/P: 3 KVAC/min I/P-FG:1.5 KVAC/min O/P-FG:0.5KVAC/min	I/P-O/P: 3.6 KVAC/min I/P-FG: 1.8 KVAC/min O/P-FG: 0.6 KVAC/min Ta:25°C	I/P-O/P: 5.43 mA I/P-FG: 5.54 mA O/P-FG:3.33 mA NO DAMAGE	P
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ I/P-FG: 500VDC>100MΩ O/P-FG:500VDC>100MΩ	I/P-O/P: 500 VDC I/P-FG: 500 VDC O/P-FG: 500 VDC Ta:25°C	I/P-O/P: 12.4G Ω I/P-FG: 19.2G Ω O/P-FG: 19.2G Ω NO DAMAGE	P
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40A / 2min Ta:25°C	2 mΩ	P
4	LEAKAGE CURRENT	< 2 mA / 240VAC	I/P: 254 VAC O/P:Min LOAD Ta:25°C	L-FG: 1 mA N-FG: 1 mA	P
5	APPROVAL	TUV: Certificate NO : R50090375 UL: File NO :			P

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	HARMONIC	EN61000-3-2 CLASS A	I/P: 230 VAC/50HZ O/P:FULL LOAD Ta:25°C	PASS	P
2	CONDUCTION	EN55022 CLASS B	I/P: 230 VAC (50HZ) O/P:FULL/50% LOAD Ta:25°C	PASS Test by certified Lab	P
3	RADIATION	EN55022 CLASS B	I/P: 230 VAC (50HZ) O/P:FULL/50% LOAD Ta:25°C	PASS Test by certified Lab	P
4	E.S.D	EN61000-4-2 LIGHT INDUSTRY AIR:8KV / Contact:4KV	I/P: 230 VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A	P
5	E.F.T	EN61000-4-4 LIGHT INDUSTRY INPUT: 1KV	I/P: 230 VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A	P
6	SURGE	IEC61000-4-5 LIGHT INDUSTRY L-N :1KV L,N-PE:2KV	I/P: 230 VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A	P
7	Test by certified Lab & Test Report Prepare				

M.T.B.F & LIFE CYCLE CALCULATION

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	CAPACITOR LIFE CYCLE	SUPPOSE C105 IS THE MOST CRITICAL COMPONENT PS-35-24 : I/P: 230VAC O/P:FULL LOAD Ta= 25°C LIFE TIME= 127980 HRS I/P: 230VAC O/P:FULL LOAD Ta= 50°C LIFE TIME= 45568 HRS I/P: 230VAC O/P:75% LOAD Ta= 50°C LIFE TIME= 45214 HRS			P
2	MTBF	MIL-HDBK-217F NOTICES2 PARTS COUNT TOTAL FAILURE RATE: 588.8K HRS			P

COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	Power Transistor (D to S) or (C to E) Peak Voltage	Q 1 Rated 2SK2545 : 600 V 6 A	I/P:High-Line +3V = 267 V O/P: (1)Full Load Turn on (2)Output Short Ta:25°C	(1) 468 V (2) 472 V	P
2	Diode Peak Voltage	D 100 Rated F10P40F : 400 V 10 A	I/P:High-Line +3V = 267 V O/P: (1)Full Load Turn on (2)Output Short Ta:25°C	(1) 342 V (2) 292 V	P
3	Clamp Diode Peak Voltage	D 1 Rated HER206 : 600 V 2 A	I/P:High-Line +3V = 267 V O/P:(1) Dynamic Load 90%Duty/1KHz Ta:25°C	(1) 450 V	P
4	Control IC Voltage Test	U 1 Rated 1203P : 16 V	I/P:High-Line +3V = 267 V O/P:(1) Output Short (2)O.L.P (3)O.V.P. Ta:25°C	(1) 13.6 V (2) 13.6 V (3) 13.6V	P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2006/7/7	RD SAMPLE	PASS	Wangdz	MAX LIN

2003/12/12 A50-F023