

MODEL : PS-05-5

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	RIPPLE & NOISE	V1: 100 mVp-p (Max)	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	V1: 12 mVp-p	P
2	OUTPUT VOLTAGE TOLERANCE	V1: -2 %~ 2% (Max)	I/P: 85 VAC / 264 VAC O/P:FULL/ 0% LOAD Ta:25°C	V1: 0.14 %-0.26 %	P
3	LINE REGULATION	V1: -1 %~ 1% (Max)	I/P: 85 VAC ~ 264VAC O/P:FULL LOAD Ta:25°C	V1: 0.12 %-0.12 %	P
4	LOAD REGULATION	V1: -1 %~ 1% (Max)	I/P: 230 VAC O/P:FULL -MIN LOAD Ta:25°C	V1: 0.12 %-0.12 %	P
5	SET UP TIME	230VAC/1000 ms (Max)	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	230 VAC/ 758 ms	P
6	RISE TIME	230VAC/ 20 ms (Max)	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	230 VAC/ 6 ms	P
7	HOLD UP TIME	230VAC/ 100 ms (TYP)	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	230VAC/ 136 ms	P
8	OVER/UNDERSHOOT TEST	< ±5%	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	TEST: 0.8 %	P
9	DYNAMIC LOAD	V1: 1000 mVp-p	I/P: 230 VAC O/P:FULL /Min LOAD 90%DUTY/1KHZ Ta:25°C	257 mVp-p	P

**INPUT FUNCTION TEST**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	INPUT VOLTAGE RANGE	85 VAC~ 264 VAC	I/P:TESTING O/P:FULL LOAD Ta:25°C	49.931 V~ 264 V	P
			I/P: LOW-LINE-3V=82 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 NO DAMAGE OSC	I/P: 85VAC ~264 VAC O/P:FULL-MIN LOAD Ta:25°C	TEST: OK	P
3	EFFICIENCY	70% (TYP)	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	72.39%	P
4	INPUT CURRENT	230 V/ 0.07 A (Max) 115 V/ 0.15 A (Max)	I/P: 230 VAC I/P: 115 VAC O/P:FULL LOAD Ta:25°C	I =0.0708 A/ 230VAC I =0.1085 A/ 115VAC	P
5	INRUSH CURRENT	230 V/ 30 A (Max) COLD START	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	I = 19.812 A/ 230VAC	P
6	LEAKAGE CURRENT	< 0.5 mA / 240VAC	I/P: 254 VAC O/P:Min LOAD Ta:25°C	L-FG: 0.15 mA N-FG: 0.15 mA	P

**PROTECTION FUNCTION TEST**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	above 105%	I/P: 230 VAC I/P: 115 VAC O/P:TESTING Ta:25°C	299 %/ 230VAC 226 %/ 115 VAC Hiccup Mode	P
2	OVER VOLTAGE PROTECTION	CH1: 5.75 V~ 6.75 V	I/P: 230 VAC O/P:MIN LOAD Ta:25°C	6.2 V	P
3	OVER TEMPERATURE PROTECTION	SPEC: Tj 140 typically (U1) Detect on main control IC	I/P: 230 VAC O/P:FULL LOAD	O.T.P. Active Hiccup mode ,recovery automatically after fault condition is removed	P
4	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 264 VAC O/P: FULL LOAD Ta:25°C	NO DAMAGE Hiccup Mode	P

**ENVIRONMENT TEST**

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	TEMPERATURE RISE TEST	MODEL : PS-05-5 1. ROOM AMBIENT BURN-IN : 1HRS I/P: 230 VAC O/P: 100% LOAD Ta= 28.9 °C 2. HIGH AMBIENT BURN-IN : 3HRS I/P: 230 VAC O/P: 100% LOAD Ta= 51.3 °C			P
2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR ( MIN )	I/P: 230VAC O/P: 120% LOAD Ta:25°C	TEST : OK	P
3	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P: 230 VAC O/P: 100 % LOAD Ta= -10°C	TEST : OK	P
4	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 50 °C NO DAMAGE	I/P: 272 VAC O/P: FULL LOAD Ta= 50°C HUMIDITY= 95 %R.H	TEST : OK	P
5	TEMPERATURE COEFFICIENT	± 0.05 %(0-50°C)	I/P: 230 VAC O/P: FULL LOAD	± 0.02 %(0-50°C)	P
6	VIBRATION TEST	1 Carton & 1 Set Operating at I/P: VAC NO LOAD (1) Waveform: Sine Wave (2) Frequency: 10-500Hz (3) Sweep Time: 10min/sweep cycle (4) Acceleration: 2G (5) Test Time: 1 hour in each axis (X.Y.Z) (6) Ta: 25°C		TEST : OK	P

**SAFETY TEST**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	WITHSTAND VOLTAGE	I/P-O/P: 3 KVAC/min	I/P-O/P: 3 KVAC/min Ta:25°C	I/P-O/P: 0.98 Ma NO DAMAGE	P
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ	I/P-O/P: 500 VDC Ta:25°C	I/P-O/P: 15G Ω NO DAMAGE	P
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40A / 2min Ta:25°C	6 mΩ	P

**E.M.C TEST**

NO	TEST ITEM	SPECICATION	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

**M.T.B.F & LIFE CYCLE CALCULATION**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	CAPACITOR LIFE CYCLE	PS-05-5: SUPPOSE C11 IS THE MOST CRITICAL COMPONENT I/P : 230VAC O/P : FULL LOAD Ta= 25 °C LIFE TIME= 177769 HRS I/P : 230 VAC O/P : FULL LOAD Ta=50 °C LIFE TIME= 49645 HRS			P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2004/12/24	RD SAMPLE	PASS	SANFORD SU	VINCENT TSENG

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