



Features:

- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- 5"x3" compact size
- Free air convection for 110W and 160W with 20.5 CFM forced air
- With power good and fail signal output
- Built-in remote sense function for 5~15V
- No load power consumption under 0.75W by PS-ON control (G model)
- Standby 5V@0.8A with fan, @0.6A without fan (G model)
- 3 years warranty

G: With 5Vsb & no load power consumption < 0.75 W
Blank: Basic function (without 5Vsb)

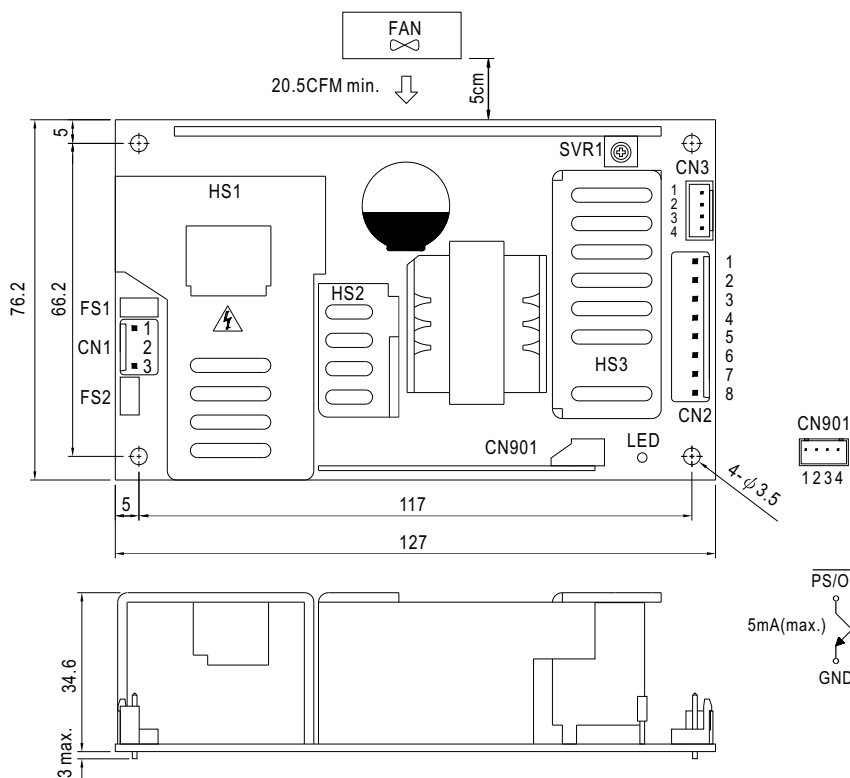
RPS **G** - 160 - 12


SPECIFICATION

MODEL		RPS-160-5	RPS-160-12	RPS-160-15	RPS-160-24	RPS-160-48
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	48V
	RATED CURRENT (20.5CFM)	30A	12.9A	10.3A	6.5A	3.25A
	CURRENT RANGE (convection)	0 ~ 20A	0 ~ 9.1A	0 ~ 7.3A	0 ~ 4.6A	0 ~ 2.3A
	CURRENT RANGE (20.5CFM)	0 ~ 30A	0 ~ 12.9A	0 ~ 10.3A	0 ~ 6.5A	0 ~ 3.25A
	RATED POWER (convection) Note.7	103W	112.2W	112.5W	113.4W	113.4W
	RATED POWER (20.5CFM) Note.8	155W	159.8W	159.5W	161W	161W
	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	120mVp-p	150mVp-p	250mVp-p
	VOLTAGE ADJ. RANGE	CH1:4.5 ~ 5.5V	CH1:10.8 ~ 13.2V	CH1:13.5 ~ 16.5V	CH1:22 ~ 27V	CH1:43.2 ~ 52.8V
	VOLTAGE TOLERANCE Note.3	±4.0%	±3.0%	±3.0%	±2.0%	±2.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
SETUP, RISE TIME	1200ms, 30ms/230VAC 2500ms, 30ms/115VAC at full load					
HOLD UP TIME (Typ.)	16ms/230VAC/115VAC at full load					
INPUT	VOLTAGE RANGE Note.6	90 ~ 264VAC 127 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF>0.93/230VAC PF>0.98/115VAC at full load				
	EFFICIENCY (Typ.)	85%	87%	87%	87%	88%
	AC CURRENT (Typ.)	2A/115VAC 1.1A/230VAC				
	INRUSH CURRENT (Typ.)	COLD START 35A/115VAC 70A/230VAC				
LEAKAGE CURRENT	Earth leakage current <300uA / 264VAC, patient leakage current <100uA/264VAC					
PROTECTION	OVERLOAD	105 ~ 135% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed				
	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	55.2 ~ 64.8V
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, re-power on to recover				
		110℃ (5V), 105℃ (12V, 15V, 24V, 48V) (TSW1 : detect on heatsink of power transistor)				
		95℃ (5V), 90℃ (12V, 15V, 24V, 48V) (TSW2 : detect on heatsink of power transistor) Protection type : (TSW1)Shut down o/p voltage, recovers automatically after temperature goes down Protection type : (TSW2)Shut down o/p voltage, re-power on to recover				
FUNCTION	5V STANDBY (G model)	5VSB : 5V@0.6A without fan, 0.8A with fan 20.5CFM ; tolerance ± 2%, ripple : 50mVp-p(max.)				
	PS-ON INPUT SIGNAL (G model)	Power on: PS-ON = "Hi" or "> 2 ~ 5V" ; Power off: PS-ON = "Low" or "< 0 ~ 0.5V"				
	POWER GOOD / POWER FAIL	500ms>PG>10ms PF>1ms				
	REMOTE SENSE	5 ~ 15V				
ENVIRONMENT	WORKING TEMP.	-20 ~ +70℃ (Refer to output load derating curve)				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃ , 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes				
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL60601-1, TUV EN60601-1 approved				
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH				
	EMI CONDUCTION & RADIATION	Compliance to EN55011 (CISPR11), EN55022 (CISPR22) Class B				
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3				
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN60601-1-2, EN61204-3, medical level, criteria A				
OTHERS	MTBF	230.5Khrs min. MIL-HDBK-217F (25℃)				
	DIMENSION	127*76.2*34.6mm (L*W*H)				
	PACKING	0.32Kg; 36pcs/12.5Kg/0.79CUFT				
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 5. HS1, HS2 & HS3 can not be shorted. 6. Derating may be needed under low input voltages. Please check the derating curve for more details. 7. The rated power includes 5Vsb @ 0.6A. 8. The rated power includes 5Vsb @ 0.8A.					

Mechanical Specification

Unit:mm



AC Input Connector (CN1) : JST B3P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	AC/N	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2	No Pin		
3	AC/L		

DC Output Connector (CN2) : JST B8P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,2,3,4	+V	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
5,6,7,8	-V		

Power Good Connector(CN3):JST B4B-XH or equivalent

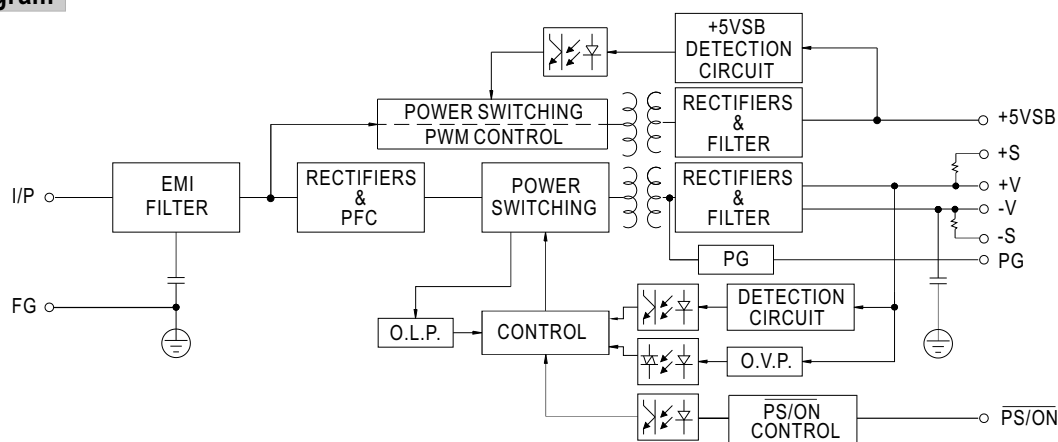
Pin No.	Status	Mating Housing	Terminal
1	PG	JST XHP or equivalent	JST SXH-001T-P0.6 or equivalent
2	GND		
3	-S		
4	+S		

5VSB Connector(CN901) : JST B-XH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	PS/ON	JST XHP or equivalent	JST SXH-001T or equivalent
2,4	GND		
3	5VSB		

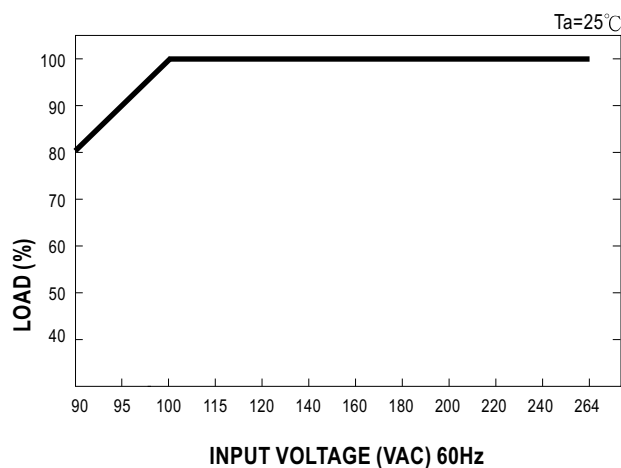
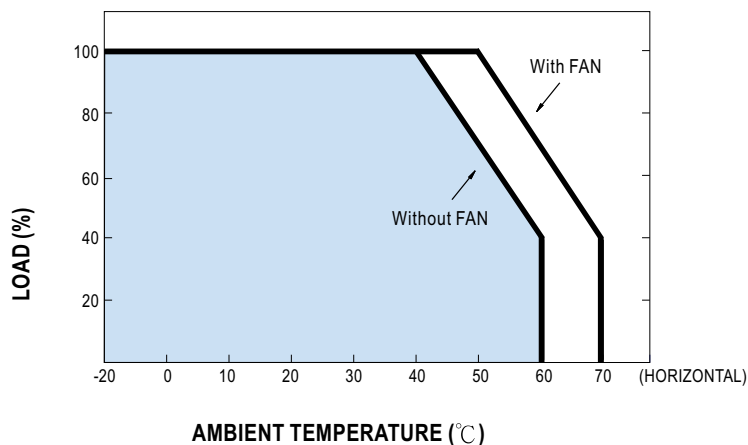
⚠ HS1,HS2,HS3 can not be shorted

Block Diagram



Derating Curve

Output Derating VS Input Voltage



MODEL : RPSG-160-12

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	RIPPLE & NOISE	V1 : 100 mVp-p (Max)	I/P : 230VAC O/P : FULL LOAD Ta : 25°C	V1 : 82 mVp-p (Max)	P
2	OUTPUT VOLTAGE ADJUST RANGE	CH1 : 10.8 V~ 13.2 V	I/P : 230 VAC I/P : 115 VAC O/P : MIN LOAD Ta : 25°C	10.48 V~ 13.626 V/230 VAC 10.475 V~ 13.627 V/115 VAC	P
3	OUTPUT VOLTAGE TOLERANCE	V1 : 3 %~ -3 % (Max)	I/P : 100 VAC / 264 VAC O/P : FULL/ MIN LOAD Ta : 25°C	V1 : 0.05 %~ -0.05 %	P
4	LINE REGULATION	V1 : 0.5 %~ -0.5 % (Max)	I/P : 100 VAC ~ 264 VAC O/P : FULL LOAD Ta : 25°C	V1 : 0.05 %~ -0.05 %	P
5	LOAD REGULATION	V1 : 1 %~ -1 % (Max)	I/P : 230 VAC O/P : FULL ~MIN LOAD Ta : 25°C	V1 : 0.05 %~ -0.05 %	P
7	SET UP TIME	230VAC : 1200 ms (Max) 115 VAC : 2500 ms (Max)	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	230VAC/ 819 ms 115VAC/ 1638 ms	P
8	RISE TIME	230VAC : 30 ms (Max) 115VAC : 30 ms (Max)	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	230VAC/ 17 ms 115VAC/ 16 ms	P
9	HOLD UP TIME	230VAC : 16 ms (TYP) 115VAC : 16 ms (TYP)	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	230VAC/ 36 ms 115VAC/ 29 ms	P
10	OVER/UNDERSHOOT TEST	< ±5%	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	TEST : < 5 %	P
11	DYNAMIC LOAD	V1 : 1200 mVp-p	I/P : 230 VAC O/P : FULL /Min LOAD 90%DUTY/1KHZ Ta : 25°C	265 mVp-p	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	INPUT VOLTAGE RANGE	100VAC~264 VAC	I/P : TESTING O/P : FULL LOAD Ta : 25°C	72V~264V	P
			I/P : LOW-LINE-3V= 97V 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 : 100 VAC ~ 264 VAC O/P : FULL~MIN LOAD Ta : 25°C	TEST : OK	P
3	POWER FACTOR	0.93 / 230 VAC(TYP) 0.98 / 115 VAC(TYP)	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	PF= 0.95 / 230 VAC PF= 0.99 / 115 VAC	P
4	EFFICIENCY	87% (TYP)	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	87.5%	P
5	INPUT CURRENT	230V/ 1.1 A (TYP) 115V/ 2 A (TYP)	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	I = 0.81 A/ 230 VAC I = 1.6 A/ 115 VAC	P
6	INRUSH CURRENT	230V/ 70 A (TYP) 115V/ 35 A (TYP) COLD START	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	I = 52 A/ 230 VAC I = 26 A/ 115 VAC	P
7	LEAKAGE CURRENT	EARTH LEAKAGE CURRENT<300 uA PATIENT LEAKAGE CURRENT<100 uA	I/P : 264 VAC O/P : Min LOAD Ta : 25°C	FOR EARTH : L-FG : 140 uA N-FG : 140 uA FOR PATIENT L-FG : 74 uA N-FG : 74 uA	P
8	No load power consumption	<0.75W/240VAC	I/P : 264 VAC O/P : NO LOAD PS/ON –GND SHORT Ta : 25°C	0.2 W/240VAC	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	105 %~ 135 %	I/P : 230 VAC I/P : 115 VAC O/P : TESTING Ta : 25°C	121%/ 230 VAC 119%/ 115 VAC Hiccup Mode	P
2	OVER VOLTAGE PROTECTION	CH1 : 13.8 V~16.2 V	I/P : 230 VAC I/P : 115 VAC O/P : MIN LOAD Ta : 25°C	15.93V / 230 VAC 15.92V / 115 VAC Shut down Re- power ON	P
3	OVER TEMPERATURE PROTECTION	SPEC : TSW1 : 105 ± 5°C O.T.P. NO DAMAGE TSW2 : 90 ± 5°C O.T.P. NO DAMAGE	I/P : 230 VAC O/P : FULL LOAD	O.T.P. Active 1、Shut down o/p voltage , recovers automatically after temperature goes down 2、Shut down Re-power ON	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

CONTROL FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	POWER GOOD SIGNAL	DELAY 10ms ~ 500ms	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	80ms/ 230 VAC 81ms/ 115 VAC	P
2	POWER FAIL SIGNAL	> 1ms	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	8.2ms/ 230 VAC 8.2ms/ 115 VAC	P
3	PS-ON INPUT SIGNAL	Power on : PS-ON="Hi" or ">2V" Power off : PS-ON="Low" or "<0.5V"	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	PS-ON= 1.5 V PS-ON= 1.4 V	P
4	REMOTE SENSE	>0.3V	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	>0.3V	P

ENVIRONMENT TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT																																																																																																				
1	TEMPERATURE RISE TEST	MODEL : RPSG-160-5 WITH FAN 1. ROOM AMBIENT BURN-IN : 1.5 HRS I/P : 230VAC O/P : FULL LOAD Ta= 42.8 °C 2. HIGH AMBIENT BURN-IN : 3 HRS I/P : 230VAC O/P : FULL LOAD Ta= 47.1 °C <table><tr><th>NO</th><th>Position</th><th>P/N</th><th>ROOM AMBIENT Ta= 42.8 °C</th><th>HIGH AMBIENT Ta= 47.1 °C</th></tr><tr><td>1</td><td>BD1</td><td>4A/800V US4KB80R</td><td>62.1°C</td><td>66.8°C</td></tr><tr><td>2</td><td>L3</td><td>TF1669-R2</td><td>58.8°C</td><td>63.2°C</td></tr><tr><td>3</td><td>LF2</td><td>TR865</td><td>54.2°C</td><td>89.0°C</td></tr><tr><td>4</td><td>Q4</td><td>2SK3568</td><td>71.2°C</td><td>76.1°C</td></tr><tr><td>5</td><td>T2</td><td>TR816</td><td>63.0°C</td><td>68.4°C</td></tr><tr><td>6</td><td>D1</td><td>BYC10X-600 10A/600V</td><td>70.4°C</td><td>75.7°C</td></tr><tr><td>7</td><td>U1</td><td>FAN4801NY</td><td>52.5°C</td><td>59.4°C</td></tr><tr><td>8</td><td>T1</td><td>TF1671</td><td>78.7°C</td><td>82.3°C</td></tr><tr><td>9</td><td>Q103</td><td>STP85N3LH5 80A/30V</td><td>78.3°C</td><td>87.2°C</td></tr><tr><td>10</td><td>C5</td><td>120u/420V 105°C PT</td><td>58.3°C</td><td>64.4°C</td></tr><tr><td>11</td><td>C106</td><td>2200u/10V UL10Kh ZLH</td><td>52.6°C</td><td>60.8°C</td></tr><tr><td>12</td><td>L100</td><td>TR763</td><td>75.5°C</td><td>84.1°C</td></tr><tr><td>13</td><td>C61</td><td>22u/50V L5Kh KY</td><td>63.6°C</td><td>72.6°C</td></tr><tr><td>14</td><td>ZD901</td><td>ST02D-200 AX078</td><td>82.4°C</td><td>89.1°C</td></tr><tr><td>15</td><td>U903</td><td>TNY 275</td><td>82.3°C</td><td>89.6°C</td></tr><tr><td>16</td><td>TSW1</td><td>110°C</td><td>57.1°C</td><td>61.9°C</td></tr><tr><td>17</td><td>T900</td><td>TF1670</td><td>81.4°C</td><td>85.6°C</td></tr><tr><td>18</td><td>TSW2</td><td>95°C</td><td>64.3°C</td><td>72.0°C</td></tr><tr><td>19</td><td>TA</td><td>4A/800V US4KB80R</td><td>42.8°C</td><td>47.1°C</td></tr></table>			NO	Position	P/N	ROOM AMBIENT Ta= 42.8 °C	HIGH AMBIENT Ta= 47.1 °C	1	BD1	4A/800V US4KB80R	62.1°C	66.8°C	2	L3	TF1669-R2	58.8°C	63.2°C	3	LF2	TR865	54.2°C	89.0°C	4	Q4	2SK3568	71.2°C	76.1°C	5	T2	TR816	63.0°C	68.4°C	6	D1	BYC10X-600 10A/600V	70.4°C	75.7°C	7	U1	FAN4801NY	52.5°C	59.4°C	8	T1	TF1671	78.7°C	82.3°C	9	Q103	STP85N3LH5 80A/30V	78.3°C	87.2°C	10	C5	120u/420V 105°C PT	58.3°C	64.4°C	11	C106	2200u/10V UL10Kh ZLH	52.6°C	60.8°C	12	L100	TR763	75.5°C	84.1°C	13	C61	22u/50V L5Kh KY	63.6°C	72.6°C	14	ZD901	ST02D-200 AX078	82.4°C	89.1°C	15	U903	TNY 275	82.3°C	89.6°C	16	TSW1	110°C	57.1°C	61.9°C	17	T900	TF1670	81.4°C	85.6°C	18	TSW2	95°C	64.3°C	72.0°C	19	TA	4A/800V US4KB80R	42.8°C	47.1°C	P
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19	TA	4A/800V US4KB80R	42.8°C	47.1°C																																																																																																					
2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)	I/P : 230 VAC O/P : 126 % 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 : -25 °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	± 0.03 %(0~50°C)	I/P : 230 VAC O/P : FULL LOAD	± 0.001 %(0~50°C)	P																																																																																																				
6	VIBRATION TEST	1 Carton & 1 Set (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	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	WITHSTAND VOLTAGE	I/P-O/P : 4 KVAC/min I/P-FG : 1.5 KVAC/min O/P-FG : 0.5 KVAC/min	I/P-O/P : 4.4 KVAC/min I/P-FG : 1.8 KVAC/min O/P-FG : 0.6 KVAC/min Ta : 25°C	I/P-O/P : 1.849 mA I/P-FG : 2.54 mA O/P-FG : 0.225 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 /70%RH	I/P-O/P : 30 GΩ I/P-FG : 30 GΩ O/P-FG : 30 GΩ NO DAMAGE	P
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40 A / 2min Ta : 25°C / 70%RH	7 mΩ	P
4	APPROVAL	TUV : Certificate NO : UL : File NO :			N/A

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	HARMONIC	EN61000-3-2 CLASS A CLASS D	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	PASS	P
2	CONDUCTION	EN55022 EN55011 CLASS B	I/P : 230 VAC (50HZ)115V/60HZ O/P : FULL/50% LOAD Ta : 25°C	PASS Test by certified Lab	P
3	RADIATION	EN55022 EN55011 CLASS B	I/P : 230 VAC (50HZ) O/P : FULL LOAD Ta : 25°C	PASS Test by certified Lab	P
4	E.S.D	EN61000-4-2 MEDICAL AIR : 8KV / Contact : 6KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	CRITERIA A	P
5	E.F.T	EN61000-4-4 MEDICAL	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	CRITERIA A	P
6	SURGE	IEC61000-4-5 MEDICAL	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	RPSG-160-5 WITH FAN : SUPPOSE I/P : 230VAC O/P : FULL LOAD I/P : 230VAC O/P : FULL LOAD	C106 IS THE MOST CRITICAL COMPONENT Ta= 25 °C LIFE TIME= 1456243 HRS Ta= 50 °C LIFE TIME= 196462 HRS		P
2	MTBF	MIL-HDBK-217F NOTICES2 PARTS COUNT TOTAL FAILURE RATE : 230.5 k 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 3 Rated 2SK3568 12A/500V	I/P : High-Line +3V = 267 V O/P : (1)Full Load Turn on (2) Output Short Ta : 25°C	(1) 440 V (2) 454 V	P
2	Diode Peak Voltage	Q101 Rated STP80NF10 80A/100V	I/P : High-Line +3V = 267 V O/P : (1)Full Load Turn on (2)Output Short Ta : 25°C	(1) 81 V (2) 78 V	P
3	PFC Transistor (D to S) or (C to E) Peak Voltage	Q 1 Rated IRFP460A 20A/500V	I/P : High-Line +3V = 267 V O/P : (1)Full Load Turn on (2) Output Short Ta : 25°C	(1) 446 V (2) 426 V	P
4	Input Capacitor Voltage	C 5 Rated 120u/420V 105°C	I/P : High-Line +3V = 267 V O/P : (1)Full Load Turn on /Off (2) Min load Turn on /Off (3)Full Load /Min load Change Ta : 25°C	(1) 384 V (2) 384.8 V (3) 384.8 V	P
5	Control IC Voltage Test	U 1 Rated FAN4801 : 12V~30V	I/P : High-Line +3V = 267 V O/P : (1)Full Load Turn on /Off (2) Min load Turn on /Off (3)Full Load /Min load Change Ta : 25°C	(1) 14.52 V (2) 14.56 V (3) 14.57 V	P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2008/9/17	RD SAMPLE	PASS	SANFORD SU	VINCENT TSENG
2009/3/11	PRODUCT SAMPLE W0810A12	PASS	SANFORD SU	VINCENT TSENG
2009/3/25	PRODUCT SAMPLE W0902B22	PASS	SANFORD SU	VINCENT TSENG

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