



# Test Report: LOP-600-36

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600W 5"×3" Low Profile Open Frame Power Supply

## ■ DESIGN VERIFY TEST

Output Function Test

Input Function Test

Protection Function Test

Control Function Test

Component Stress Test

## ■ SAFETY & E.M.C. TEST

Safety Test

E.M.C. Test

## ■ RELIABILITY TEST

ENVIRONMENT TEST

■ DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT VOLTAGE ADJUST RANGE	CH1: 34.2V~37.8V	I/P : 230 VAC I/P : 115 VAC O/P : MIN LOAD Ta : 25°C	33.043V~38.902V/230VAC 33.043V~38.902V/115VAC 33.043~38.902
2	OUTPUT VOLTAGE TOLERANCE	V1: -1% ~ +1%	I/P: 80VAC~ 264VAC O/P:FULL~ MIN. LOAD Ta:25°C	V1: -0.776% ~0.0556%
3	LINE REGULATION	V1: -0.5% ~ +0.5%	I/P: 80VAC~ 264VAC O/P:FULL LOAD Ta:25°C	V1: -0.0056% ~0.0084%
4	LOAD REGULATION	V1: -1% ~ +1%	I/P: 230VAC O/P:FULL ~MIN LOAD Ta:25°C	V1: -0.776% ~0.0556%
5	OVER/UNDERSHOOT TEST	<±5%	I/P: 230VAC O/P:FULL LOAD / NO LOAD Ta:25°C	2.2%
6	RIPPLE & NOISE (Max)	V1: 250mVp-p	I/P:230VAC O/P: FULL LOAD Ta:25°C	V1: 149mVp-p / high frequency 167mVp-p / low frequency
		<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>high frequency :</p> </div> <div style="text-align: center;"> <p>low frequency :</p> </div> </div>		
7	SET UP TIME(Max)	230VAC/1000ms 115VAC/1500ms	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	230VAC/ 666.8ms 115VAC/ 559.0ms
		<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>INPUT=230VAC/50HZ @ FULL LOAD CH1: Output Voltage CH2: AC Input Voltage</p> </div> <div style="text-align: center;"> <p>INPUT=115VAC/60HZ @ FULL LOAD CH1: Output Voltage CH2: AC Input Voltage</p> </div> </div>		

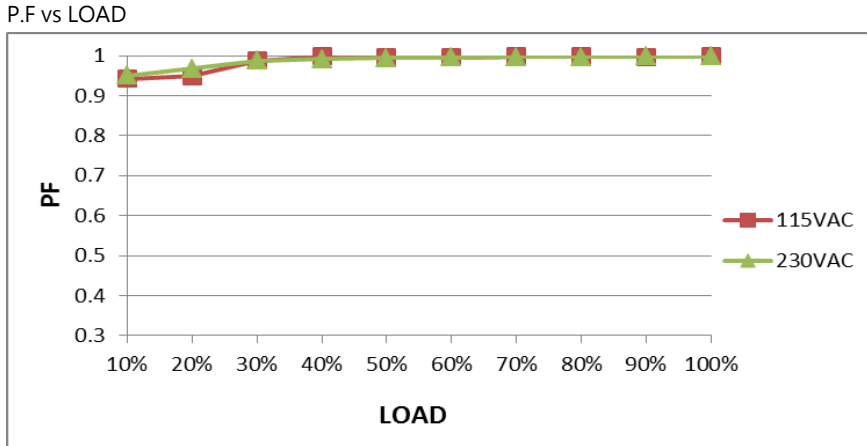
			<p>8</p> <p>RISE TIME (Max)</p> <p>230VAC/50ms 115VAC/50ms</p> <p>I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C</p> <p>230VAC/ 14.77ms 115VAC/ 13.21ms</p>
	<p>INPUT=230VAC/50HZ @ FULL LOAD CH1: Output Voltage</p>		<p>INPUT=115VAC/60HZ @ FULL LOAD CH1: Output Voltage</p>
	<p>9</p> <p>HOLD UP TIME (Typ.)</p> <p>8ms /600W load 12ms /400W load</p>	<p>I/P : 230 VAC O/P : TESTING Ta : 25°C</p>	<p>17.20ms /600W load 25.40ms /400W load</p>
	<p>10</p> <p>DYNAMIC LOAD</p> <p>V1: 3600mVp-p</p>	<p>I/P: 230VAC O/P: (1) FULL/0% LOAD 50%DUTY / 120HZ (2) FULL/0% LOAD 50%DUTY / 1KHZ Ta:25°C</p>	<p>640mVp-p 520mVp-p</p> <p>FULL /0% LOAD 50%DUTY / 120HZ</p> <p>FULL /0% LOAD 50%DUTY / 1KHZ</p>

<p>11</p>	<p>TRANSIENT RECOVERY TIME</p>	<p>V1: 3600mVp-p &lt; 500us</p>	<p>I/P: 230VAC O/P:40% LOAD CHANGE 50%DUTY/120HZ 1.25A/us</p>
<p>12</p>	<p>PEAK LOAD</p>	<p>150% PEAK LOAD@3S</p>	<p>I/P: 264VAC I/P: 115VAC O/P: PEAK LOAD</p>

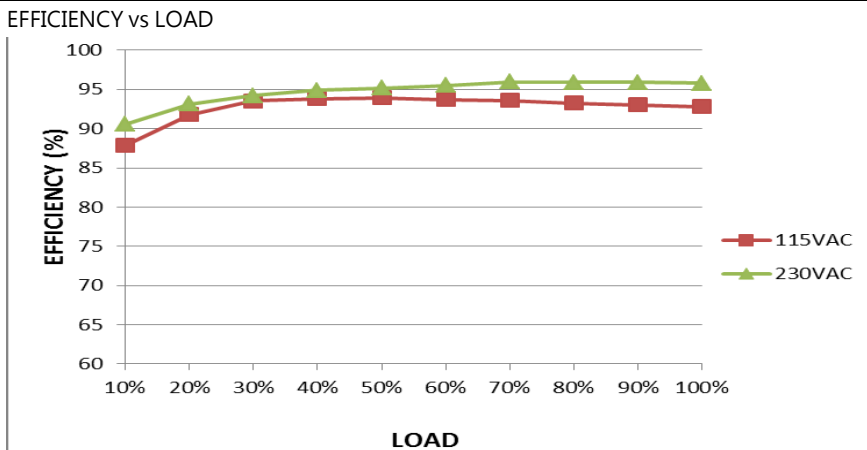
### INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	80VAC~264VAC 113VDC~ 370VDC 	(1) I/P: TESTING O/P: FULL / 70% LOAD (2) I/P: DC TESTING (L: + N: -) O/P: FULL / 70% LOAD (3) I/P: DC TESTING (L: - N: +) O/P: FULL / 70% LOAD Ta:25°C  I/P: HIGH-LINE+15%=300V O/P:FULL/MIN LOAD (PLEASE CHECK DERATING CURVE) ON: 30 Sec OFF: 30 Sec 10MIN ( POWER ON/OFF NO DAMAGE )	(1) 67.8V~264V/ FULL LOAD 67.8V~264V/ 70% LOAD (2) 96.7Vdc~370Vdc/FULL LOAD 96.7Vdc~370Vdc/70% LOAD (3) 96.7Vdc~370Vdc/FULL LOAD 96.7Vdc~370Vdc/70% LOAD  TEST : OK
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P:80 VAC ~264 VAC O/P:FULL~MIN LOAD Ta:25°C	TEST : OK
3	INPUT CURRENT (Typ.)	230V/ 3.2A 115V/ 6.4A	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	I =2.7386A/ 230VAC I =5.7178A/ 115VAC
4	LEAKAGE CURRENT	Earth leakage current <500uA(rms) @ 264VAC touch current <70uA(rms) @ 264VAC	I/P : 264 VAC/60HZ O/P : Min LOAD Ta : 25°C	266.2 uA / 264 VAC@ For Earth 33.8uA / 264 VAC@For Touch
5	NO LOAD CONSUMPTION	<0.5W	I/P : 240VAC O/P : NO LOAD Ta : 25°C	0.3851W

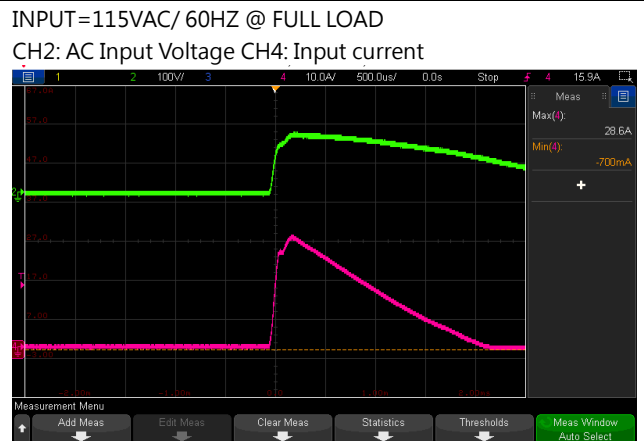
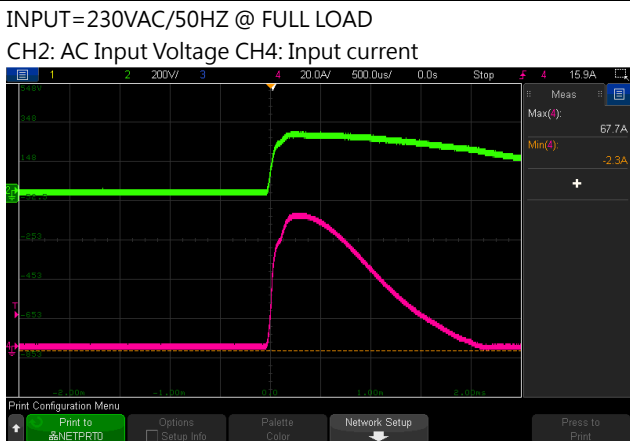
6	POWER FACTOR (Typ.) 0.95/ 230VAC 0.98/115VAC	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	PF=0.9981/230VAC PF=0.9982/115VAC
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7	EFFICIENCY(Typ.) 95%	I/P:230 VAC O/P:FULL LOAD Ta:25°C	95.57%
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8	INRUSH CURRENT(Typ.) 230V/80A 115V/40A COLD START	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	I =67.7A/ 230VAC I =28.6A/ 115VAC T50=1069us/230V
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### PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER LOAD PROTECTION	105%~ 150% PROTECTION TYPE : Hiccup after 3 sec, recovers automatically after fault condition is removed	I/P: 264VAC I/P: 230VAC I/P: 115VAC O/P:TESTING Ta:25°C	136.82%/ 264VAC 137.01%/ 230VAC 138.92%/ 115VAC PROTECTION TYPE : Hiccup after 3 sec, recovers automatically after fault condition is removed
2	OVER VOLTAGE PROTECTION	39.6V~46.8V Protection type: Shut down o/p voltage, re-power on to recover	I/P: 264VAC I/P: 80VAC O/P:MIN LOAD Ta:25°C	42.1V/ 264VAC 42.3V/ 80VAC Protection type: Shut down o/p voltage, re-power on to recover
3	OVER TEMPERATURE PROTECTION	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down (Vin=115Vac); Shut down o/p voltage, re-power on to recover ( Vin=230Vac or FAN LOCK)	I/P: 264VAC I/P: 80VAC O/P:FULL LOAD	O.T.P Active OK Protection type : Shut down o/p voltage, recovers automatically after temperature goes down (Vin=115Vac); Shut down o/p voltage, re-power on to recover (Vin=230Vac or FAN LOCK)
4	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE Protection type: Hiccup mode, recovers automatically after fault condition is removed	I/P: 264VAC I/P: 80VAC O/P: FULL LOAD Ta:25°C	NO DAMAGE PROTECTION TYPE : Hiccup mode, recovers automatically after fault condition is removed

### CONTROL FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	EXTERNAL FAN SUPPLY	12V@0.5A for driving a fan ; tolerance -15% ~ +15% at main output 20% rated current (23CFM)	I/P: 230 VAC O/P: TESTING Ta:25°C	TEST : <u>-0.116% ~ 0.0746%</u>
2	REMOTE SENSE	S+ / S- The remote sensing compensates voltage drop on the load wiring up to 0.5V	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	TEST : <u>OK</u>

### COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Transistor ( D to S) or (C to E) Peak Voltage	Q2/ Q3 Rated: 26A/600V	AC ON/OFF I/P: High-Line +3V =267V VDS: O/P: (1)Full Load (2)Output Short (3) Dynamic Load Full Load/ Min. Load 90%Duty/1KHz	Q2: Q3: VDS: VDS: (1) 458V (1) 450V (2) 470V (2) 454V (3) 458V (3) 454V (4) 466V (4) 450V (5) 462V (5) 446V



			<p>(4) Dynamic Load Full Load/ Min. Load 90%Duty/3KHz</p> <p>(5) Dynamic Load Full Load/ Min. Load 90%Duty/5KHz</p> <p>(6) Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz</p> <p>(7)0%→400% Load</p> <p>(8) Peak Load</p> <p>Ta:25°C</p>	<p>(6) 466V</p> <p>(7) 466V</p> <p>(8) 462V</p>	<p>(6) 450V</p> <p>(7) 450V</p> <p>(8) 446V</p>
2	P.F.C Transistor ( D to S) or (C to E) Peak Voltage	Q1 Rated: 52A/600V	<p>AC ON/OFF</p> <p>I/P: High-Line +3V =267V</p> <p>VDS:</p> <p>O/P: (1)Full Load</p> <p>(2)Output Short</p> <p>(3) Dynamic Load Full Load/ Min. Load 90%Duty/1KHz</p> <p>(4) Dynamic Load Full Load/ Min. Load 90%Duty/3KHz</p> <p>(5) Dynamic Load Full Load/ Min. Load 90%Duty/5KHz</p> <p>(6) Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz</p> <p>(7)0%→400% Load</p> <p>(8) Peak Load</p> <p>Ta:25°C</p>	VDS:	<p>(1) 446V</p> <p>(2) 446V</p> <p>(3) 450V</p> <p>(4) 442V</p> <p>(5) 446V</p> <p>(6) 450V</p> <p>(7) 438V</p> <p>(8) 470V</p>
3	P.F.C DIODE	D2 Rated: 6A/ 650V	<p>I/P: High-Line +3V =267 V</p> <p>AC ON/OFF</p> <p>O/P: (1)Full Load</p> <p>(2)Output Short</p> <p>(3) Dynamic Load Full Load/ Min. Load 90%Duty/5KHz</p> <p>(4) Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz</p> <p>(5) Peak Load</p> <p>Ta:25°C</p>	<p>(1) 402V</p> <p>(2) 406V</p> <p>(3) 402V</p> <p>(4) 398V</p> <p>(5) 406V</p>	
4	Diode Peak Voltage	Q101/Q103 Rated: 90A/ 100V	<p>AC ON/OFF</p> <p>I/P: High-Line +3V =267 V</p> <p><u>VO=Vmax</u></p> <p>O/P: (1)Full Load</p> <p>(2)Output Short</p> <p>(3) Dynamic Load Full Load/ Min. Load 90%Duty/1KHz</p> <p>(4) Dynamic Load Full Load/ Min. Load 90%Duty/3KHz</p> <p>(5) Dynamic Load Full Load/ Min. Load 90%Duty/5KHz</p> <p>(6) Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz</p> <p>(7)0%→400% Load.</p>	<p>Q101: <u>VO=Vmax</u></p> <p>VDS:</p> <p>(1) 87.5V</p> <p>(2) 87.5V</p> <p>(3) 87.5V</p> <p>(4) 87.5V</p> <p>(5) 87.5V</p> <p>(6) 88.3V</p> <p>(7) 86.7V</p> <p>(8) 86.7V</p> <p>(9) 87.1V</p> <p>(10) 89.1V</p> <p><u>VO=Vnormal</u></p>	<p>Q103: <u>VO=Vmax</u></p> <p>VDS:</p> <p>(1) 88.5V</p> <p>(2) 88.5V</p> <p>(3) 88.5V</p> <p>(4) 88.5V</p> <p>(5) 87.7V</p> <p>(6) 89.3V</p> <p>(7) 84.5V</p> <p>(8) 84.5V</p> <p>(9) 85.3V</p> <p>(10) 89.3V</p> <p><u>VO=Vnormal</u></p>

			(8).NO LOAD (9) burst Mode (10) Peak Load $V_O = V_{normal}$ O/P: (1) Full Load Ta:25°C	(1) 84.3V (1) 84.5V
5	Input Capacitor Voltage	C5 Rated: 330μ / 400V	I/P: High-Line +3V =267V O/P: (1)Full Load input on/off (2) Min load input on /Off (3) Full Load /Min load Change (4) Full load continue Ta:25°C	(1) 398V (2) 396V (3) 398V (4) 398V
6	Control IC Voltage Test	PFC /PWM IC U1: Rated : 10.4V~28.7 V  O/P IC U101 Rated : 4.75V~38V	AC ON/OFF I/P: High-Line +3V =267 V O/P: (1) FULL LOAD (2) Output Short (3) O.L.P (4) O.V.P. (5) NO LOAD VRmin (LOW LINE) Ta:25°C	U1 (1) 19.1V (2) 19.1V (3) 19.1V (4) 19.1V (5) 18.9V  U101 (1) 11.7V (2) 11.6V (3) 11.7V (4) 11.7V (5) 11.7V

## ■ SAFETY& E.M.C. TEST

### SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P: 4KVAC/min I/P-FG :2KVAC/min O/P-FG:1.5KVAC/min	I/P-O/P: 4.4 KVAC/min I/P-FG: 2.4 KVAC/min O/P-FG:1.8 KVAC/min Ta:25°C	I/P-O/P: 1.763mA I/P-FG: 2.37mA O/P-FG:0.808mA NO DAMAGE
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ I/P-FG: 500VDC>100MΩ O/P-FG:500VDC>100MΩ	I/P-O/P: 600 VDC I/P-FG: 600 VDC O/P-FG: 600 VDC Ta:25°C	I/P-O/P:50GΩ I/P-FG:50GΩ O/P-FG:50GΩ NO DAMAGE

### E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	HARMONIC	BS EN/EN61000-3-2 CLASS A	I/P:230VAC/50HZ O/P:FULL LOAD Ta:25°C	PASS
2	CONDUCTION	BS EN/EN55032(CISPR32) Class I: Class B, Class II: Class A BS EN/EN55014(CISPR32) Class I: Class B	I/P : 230 VAC (50HZ) O/P : FULL/50% LOAD Ta : 25°C	PASS Test by certified Lab



3	RADIATION	BS EN/EN55032(CISPR32) Class I: Class B, Class II: Class A BS EN/EN55014(CISPR32) Class I: Class B	I/P : 230 VAC (50HZ) O/P : FULL LOAD Ta : 25°C	PASS Test by certified Lab
4	E.S.D	BS EN/EN61000-4-2 ■ MEDICAL AIR : 15KV / Contact : 8KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	■ CRITERIA A
5	E.F.T	BS EN/EN61000-4-4 ■ INDUSTRY INPUT : 2KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	■ CRITERIA A
6	SURGE	IEC61000-4-5 ■ INDUSTRY L-N : 2KV L,N-PE : 4KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	■ CRITERIA A
7	Test by certified Lab & Test Report Prepare Any contradictions of the test results, please refer to the latest EMC test report			

## ■ RELIABILITY TEST

### ENVIRONMENT TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION		RESULT			
1	TEMPERATURE RISE TEST	MODEL : LOP-600-24 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD 2. HIGH AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD						
			ROOM AMBIENT Ta= 25 °C NO FAN	HIGH AMBIENT Ta= 40 °C NO FAN	ROOM AMBIENT Ta= 25 °C WITH FAN	HIGH AMBIENT Ta= 50 °C WITH FAN		
			1	ZNR1	52.8°C	67.8°C	29.4°C	53.4°C
			2	C2	56.9°C	71.8°C	29.8°C	53.7°C
			3	LF1	58.8°C	73.7°C	31.1°C	55.6°C
			4	LF2	70.4°C	85.1°C	38.6°C	63.2°C
			5	BD1	75.9°C	91°C	49.5°C	74.7°C
			6	RTH1	70.5°C	84.9°C	31.5°C	55.9°C
			7	RY1	76°C	89.9°C	35.7°C	60.5°C
			8	C8	57.7°C	72.4°C	37.3°C	61.5°C
			9	L1	72.7°C	87.5°C	51.4°C	76.2°C
			10	Q1	74.3°C	89.8°C	46.9°C	73.6°C
			11	D2	73.5°C	89.3°C	51.7°C	77.7°C
			12	RTH3	71.9°C	87.5°C	47.2°C	73.1°C

NO	Position	ROOM AMBIENT	HIGH AMBIENT	ROOM AMBIENT	HIGH AMBIENT
		Ta= 25 °C NO FAN	Ta= 40 °C NO FAN	Ta= 25 °C WITH FAN	Ta= 50 °C WITH FAN
13	U1	61.1°C	78.1°C	41.5°C	66.4°C
14	Q3	72.7°C	88.5°C	48.7°C	74.9°C
15	Q2	73.5°C	89.4°C	49.5°C	75.9°C
16	C60	62.4°C	76.7°C	27.7°C	51.4°C
17	C40	77.4°C	92.4°C	42°C	67.1°C
18	T1 Coil	98°C	112.4°C	74.7°C	100.4°C
19	T1 Core	85.2°C	100.5°C	53.9°C	78.2°C
20	D103	67°C	83.1°C	40.5°C	65.4°C
21	C125	55.7°C	72.6°C	39.1°C	62.4°C
22	C120	66°C	81.9°C	42.4°C	67.6°C
23	TSW1	71.7°C	87.4°C	43°C	68.1°C
24	Q101	83.6°C	98.9°C	53.4°C	79.6°C
25	Q103	85.2°C	100.2°C	51.5°C	77.7°C
26	C103	71.5°C	86.5°C	41.3°C	66.4°C
27	C102	66°C	81.5°C	42.5°C	67.4°C
28	L100	59.9°C	75.5°C	44.1°C	69.6°C
29	D1	62.4°C	76.7°C	34.6°C	59°C
30	R3	69.5°C	84.4°C	41.8°C	66.5°C
31	Q7	71.2°C	84.5°C	29.9°C	52.9°C
32	U101	89°C	103.1°C	35.1°C	63.3°C
33	R100	88.2°C	102.3°C	42.7°C	67.6°C
34	Q108	72.1°C	87.1°C	36.4°C	60.8°C
35	RG100	52.4°C	68.4°C	42.9°C	67.2°C
36	R122	56.2°C	72.3°C	39.5°C	64.2°C
37	D105	56.5°C	72.6°C	38.3°C	62.7°C
38	U4	50.4°C	67.4°C	33.8°C	58.4°C
39	R106	76.2°C	93.8°C	35.4°C	67.5°C
40	C5	61.9°C	77.9°C	44.3°C	68.3°C
2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR ( MIN )	I/P : 230 VAC O/P : 129.4%LOAD Ta : 25°C	TEST : OK	
3	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 264VAC/115VAC O/P : 100%LOAD Ta= -45°C	TEST : OK	
4	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 50 °C/95 %R.H NO DAMAGE	I/P : 272 VAC O/P : FULL LOAD Ta= 50 °C HUMIDITY= 95 %R.H	TEST : OK	
5	TEMPERATURE COEFFICIENT	± 0.03%/°C(0~50°C)	I/P : 230 VAC O/P : FULL LOAD	±0.006%/°C(0~50°C)	

6	STORAGE TEMPERATURE TEST	-40~85°C	1. Thermal shock Temperature : -45°C~ +90°C 2. Temperature change rate : 25°C / MIN 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle : 10 CYCLE 5. Input/output condition : STATIC
7	THERMAL SHOCK TEST	-40~50°C	1. Thermal shock Temperature : -45°C~ +55°C 2. Temperature change rate : 25°C / MIN 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle : 16 CYCLE 5. Input/output condition : 15cycle:230V/ FULL LOAD AC ON 3sec/AC OFF 1sec TEST 1cycle:230V/ FULL LOAD Burn In Test
8	VIBRATION TEST	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes	1 Carton & 1 Set (1) Waveform : Sine Wave (2) Frequency : 10~500Hz (3) Sweep Time : 12min/sweep cycle (4) Acceleration : 3G (5) Test Time : 180min in each axis (X.Y.Z) (6) Ta : 25°C
9	CAPACITOR LIFE CYCLE	SUPPOSE C102 IS THE MOST CRITICAL COMPONENT	(1) I/P : 230VAC O/P : FULL LOAD Ta= 25 °C LIFE TIME (1) 123392.5HRS (NO FAN) (2) I/P : 230VAC O/P : FULL LOAD Ta= 40 °C LIFE TIME (2) 43625.8HRS (NO FAN) (3) I/P : 230VAC O/P : 75% LOAD Ta= 40 °C LIFE TIME (3) 57749.9HRS (NO FAN) (4) I/P : 230VAC O/P : 50% LOAD Ta= 40 °C LIFE TIME (4) 189080.9HRS (NO FAN)
		SUPPOSE C102 IS THE MOST CRITICAL COMPONENT	(1) I/P : 230VAC O/P : FULL LOAD Ta= 25 °C LIFE TIME (5) 681703.7 HRS (WITH FAN) (2) I/P : 230VAC O/P : FULL LOAD Ta= 50 °C LIFE TIME (6) 121347.5 HRS (WITH FAN) (3) I/P : 230VAC O/P : 75% LOAD Ta= 50 °C LIFE TIME (7) 240968.3 HRS (WITH FAN) (4) I/P : 230VAC O/P : 50% LOAD Ta= 50 °C LIFE TIME (8) 365167.5 HRS (WITH FAN)
10	MTBF	Conducted by Parts Stress Analysis Prediction 1963.2K hrs min. Telcordia SR-332 (Bellcore) ;310.9K hrs min. MIL-HDBK-217F (25°C)	
11	Ongoing Reliability Test	I/P : 230VAC O/P : FULL LOAD TA=50°C Demonstration Mean Time Between Failure : 30,000 hours	

TEST RESULT	TESTER	REVIEW	APPROVAL
PASS	Yuwei	Liutt	Wangdz

2020.10.1 TAG-QA-009