



# Test Report: XDR-960E-36

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960W AC/DC Economical Ultra Slim Industrial DIN Rail  
Power

## ■ 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

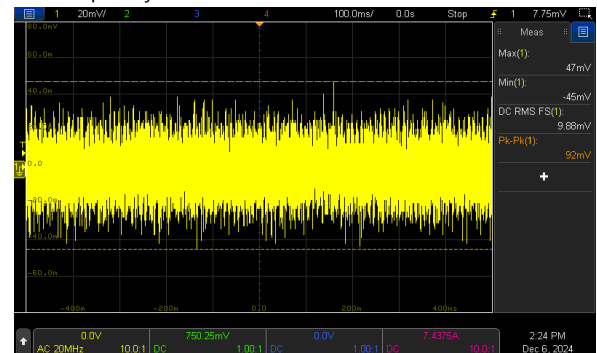
### OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT VOLTAGE ADJUST RANGE	CH1: 36V~42V	I/P : 230 VAC O/P : MIN LOAD Ta : 25°C	34.873V~43.588V/230VAC
2	OUTPUT VOLTAGE TOLERANCE	V1: -1% ~ +1%	I/P: 180VAC~ 264VAC O/P:FULL~ MIN. LOAD Ta:25°C	V1: -0.0556% ~ 0.05%
3	LINE REGULATION	V1: -0.5% ~ +0.5%	I/P: 180VAC~ 264VAC O/P:FULL LOAD Ta:25°C	V1: -0.0278% ~ 0.0111%
4	LOAD REGULATION	V1: -1% ~ +1%	I/P: 230VAC O/P:FULL ~MIN LOAD Ta:25°C	V1: -0.0556% ~ 0.05%
5	OVER/UNDERSHOOT TEST	< ±5%	I/P: 230VAC O/P:FULL LOAD / NO LOAD Ta:25°C	1.47% →FULL LOAD 2.41% →NO LOAD
6	RIPPLE & NOISE (Max)	V1: 150mVp-p	I/P:230VAC O/P:FULL LOAD Ta:25°C	V1: 68mVp-p / high frequency 92mVp-p / low frequency

high frequency :



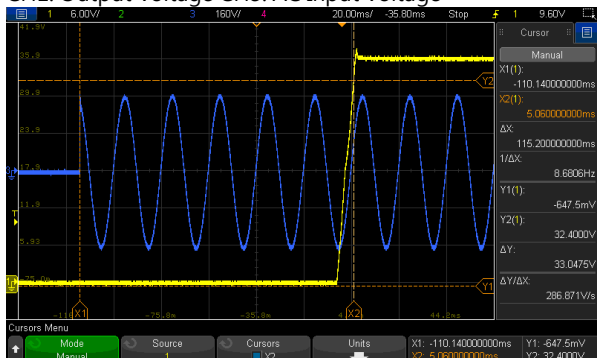
low frequency :



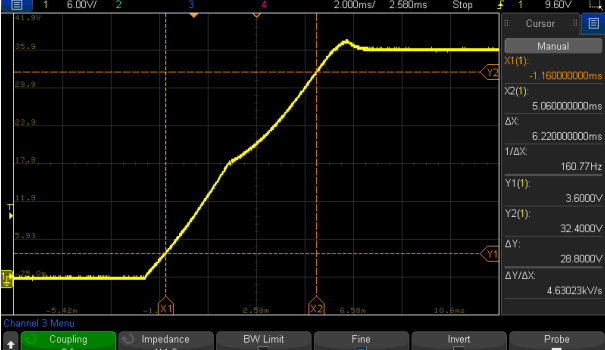
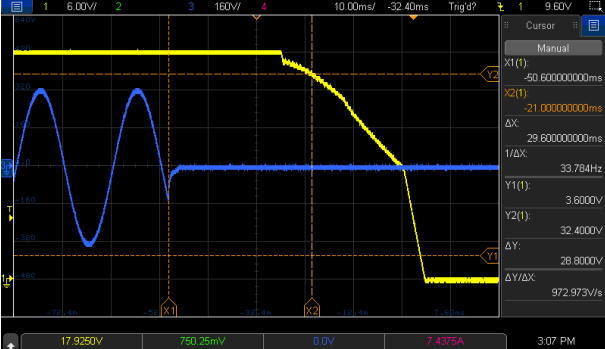
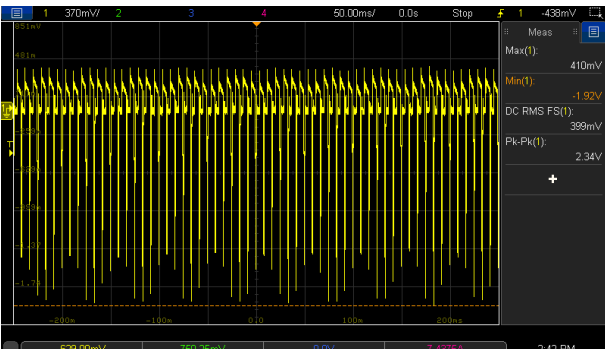
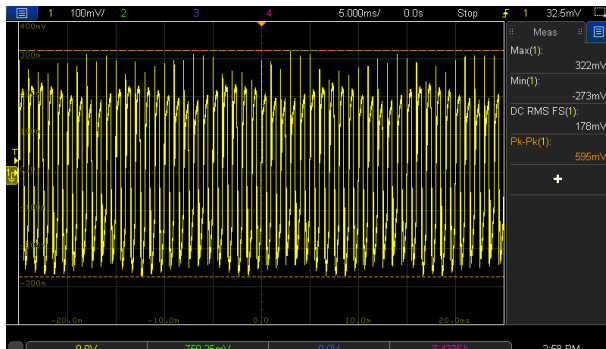
7	SET UP TIME (Max)	230VAC/500ms	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	230VAC/ 115.2ms
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INPUT=230VAC/50HZ @ FULL LOAD

CH1: Output Voltage CH3: AC Input Voltage





8	RISE TIME (Max)	230VAC/50ms	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	230VAC/ 6.22ms
<p>INPUT=230VAC/50HZ @ FULL LOAD CH1: Output Voltage</p> 				
9	HOLD UP TIME (Typ.)	230VAC/ 15ms	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	230VAC/ 29.6ms
<p>INPUT=230VAC/50HZ @ FULL LOAD CH1: Output Voltage CH3: AC Input Voltage</p> 				
10	DYNAMIC LOAD	V1: 3600mVp-p	I/P: 230VAC O/P: (1) FULL/ MIN LOAD 50%DUTY / 120HZ (2) FULL/ MIN LOAD 50%DUTY / 1KHZ Ta:25°C	1540mVp-p 929mVp-p
<p>FULL / MIN LOAD 50%DUTY / 120HZ</p>  <p>FULL / MIN LOAD 50%DUTY / 1KHZ</p> 				

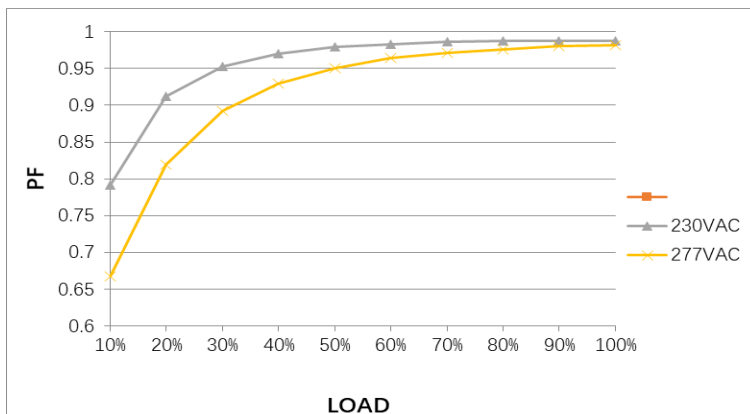


11	TRANSIENT RECOVERY TIME	V1: 3600mVp-p <500us	I/P: 230VAC O/P:40% LOAD CHANGE 50%DUTY/120HZ 1.25A/us	405mVp-p
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### INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	180VAC~264VAC 254.5VDC~370VDC	(1) I/P: TESTING O/P: FULL / 85% LOAD (2) I/P: DC TESTING (L: + N: -) O/P: FULL / 85% LOAD (3) I/P: DC TESTING (L: - N: +) O/P: FULL / 85% LOAD Ta:25°C	(1)167.1VAC~264VAC/ FULL LOAD 167.1VAC~264VAC/ 85% LOAD (2) 235.8Vdc~370Vdc/FULL LOAD 235.8Vdc~370Vdc/85% LOAD (3) 235.8Vdc~370Vdc/FULL LOAD 235.8Vdc~370Vdc/85% LOAD
			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 )	TEST : OK
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P:180VAC ~264 VAC O/P:FULL~MIN LOAD Ta:25°C	TEST : OK
3	INPUT CURRENT (Typ.)	230V/ 4.5A	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	4.45A/ 230VAC
4	LEAKAGE CURRENT	< 3.5mA / 240 VAC	I/P : 240 VAC/60HZ O/P : Min LOAD Ta : 25°C	0.81mA
5	NO LOAD CONSUMPTION	< 3.6W	I/P : 230VAC O/P : NO LOAD Ta : 25°C	2.534W/ 230VAC
6	POWER FACTOR (Typ.)	0.95/ 230VAC	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	PF=0.972/230VAC

P.F vs LOAD



7	EFFICIENCY(Typ.)	95%	I/P:230 VAC O/P:FULL LOAD Ta:25°C	95.55%																																	
<p>EFFICIENCY vs LOAD</p> <table border="1"> <caption>Efficiency vs Load Data</caption> <thead> <tr> <th>LOAD (%)</th> <th>230VAC Efficiency (%)</th> <th>277VAC Efficiency (%)</th> </tr> </thead> <tbody> <tr><td>10%</td><td>91.5</td><td>91.5</td></tr> <tr><td>20%</td><td>93.5</td><td>93.5</td></tr> <tr><td>30%</td><td>94.5</td><td>94.5</td></tr> <tr><td>40%</td><td>95.0</td><td>95.0</td></tr> <tr><td>50%</td><td>95.2</td><td>95.2</td></tr> <tr><td>60%</td><td>95.3</td><td>95.3</td></tr> <tr><td>70%</td><td>95.4</td><td>95.4</td></tr> <tr><td>80%</td><td>95.4</td><td>95.4</td></tr> <tr><td>90%</td><td>95.5</td><td>95.5</td></tr> <tr><td>100%</td><td>95.55</td><td>95.55</td></tr> </tbody> </table>					LOAD (%)	230VAC Efficiency (%)	277VAC Efficiency (%)	10%	91.5	91.5	20%	93.5	93.5	30%	94.5	94.5	40%	95.0	95.0	50%	95.2	95.2	60%	95.3	95.3	70%	95.4	95.4	80%	95.4	95.4	90%	95.5	95.5	100%	95.55	95.55
LOAD (%)	230VAC Efficiency (%)	277VAC Efficiency (%)																																			
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90%	95.5	95.5																																			
100%	95.55	95.55																																			
8	INRUSH CURRENT(Typ.)	230V/30A COLD START	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	I =21.8A/ 230VAC T50= 2552us/230V																																	
<p>INPUT=230VAC/50HZ @ FULL LOAD CH1: AC Input Voltage CH4: Input current</p>																																					

### PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER LOAD PROTECTION	105%~130% rated output power Protection type: Hiccup mode when output voltage <30%, recovers automatically after fault condition is removed Constant current limiting without shutdown within 30%~100% rated output voltage, recovers automatically after fault condition is removed	I/P: 264VAC I/P: 230VAC I/P: 200VAC O/P:TESTING Ta:25°C	116.05%/ 264VAC 116.05%/ 230VAC 116.05%/ 200VAC PROTECTION TYPE : Hiccup mode when output voltage <30%, recovers automatically after fault condition is removed Constant current limiting without shutdown within 30%~100% rated output voltage, recovers automatically after fault condition is removed



2	OVER VOLTAGE PROTECTION	43V~50V Protection type: Shut down o/p voltage, re-power on to recover	I/P: 264VAC I/P: 180VAC O/P:MIN LOAD Ta:25°C	46.69V/ 264VAC 46.69V/ 180VAC 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	I/P: 264VAC I/P: 180VAC O/P:FULL LOAD	O.T.P. Active OK Protection type : Shut down o/p voltage, recovers automatically after temperature goes down
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: 180VAC O/P: FULL LOAD Ta:25°C	NO DAMAGE OK PROTECTION TYPE : Hiccup mode, recovers automatically after fault condition is removed

### CONTROL FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	DC OK CONTACT RATINGS	30VDC/1A 30VAC/0.5A RESISTIVE LOAD	I/P:230VAC O/P:FULL LOAD Ta:25°C	TEST : OK
2	PARALLEL	Up to 3840W (3+1) units; Please refer to the Instruction manual	I/P : 230 VAC O/P : TESTING LOAD Ta : 25°C	TEST : OK

### COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Transistor (D to S) or (C to E) Peak Voltage	Q13/Q14 Rated: 62A/600 V	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 (4) Dynamic Load Full Load/ Min. Load 90%Duty/3KHz (5) Dynamic Load Full Load/ Min. Load 90%Duty/5KHz (6) Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz (7)0%→400% Load Ta:25°C	Q13                      Q14 VDS:                      VDS: (1) 488V                      (1) 470V (2) 488V                      (2) 470V (3) 488V                      (3) 470V (4) 488V                      (4) 470V (5) 488V                      (5) 467V (6) 488V                      (6) 473V (7) 478V                      (7) 467V

2	P.F.C Transistor (D to S) or (C to E) Peak Voltage	Q2 Rated: 64A/ 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 (4) Dynamic Load Full Load/ Min. Load 90%Duty/3KHz (5) Dynamic Load Full Load/ Min. Load 90%Duty/5KHz (6) Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz (7)0%→400% Load Ta:25°C	Q2 : VDS: (1) 471V (2) 493V (3) 471V (4) 471V (5) 471V (6) 487V (7) 434V
3	P.F.C DIODE	D18 Rated: 8A/ 650V	I/P: High-Line +3V =267V AC ON/OFF O/P: (1)Full Load (2)Output Short (3) Dynamic Load Full Load/ Min. Load 90%Duty/5KHz (4) Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz Ta:25°C	(1) 440V (2) 440V (3) 440V (4) 440V
4	Diode Peak Voltage	Q100/Q107: Rated : 76A/ 150V	AC ON/OFF I/P: High-Line +3V =267 V <u>Vo=Vomax</u> O/P: (1) Full Load (2)Output Short (3) Dynamic Load Full Load/ Min. Load 90%Duty/1KHz (4) Dynamic Load Full Load/ Min. Load 90%Duty/3KHz (5) Dynamic Load Full Load/ Min. Load 90%Duty/5KHz (6) Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz (7)0%→400% Load. (8).NO LOAD (9) burst Mode 脫離前 <u>Vo=Vnormal</u> O/P: (1) Full Load Ta:25°C	Q100 :                      Q107 : <u>Vo=Vomax</u> <u>Vo=Vomax</u> VDS:                              VDS: (1) 103.3V                      (1) 104.5V (2) 103.3V                      (2) 104.5V (3) 106.1V                      (3) 108.3V (4) 108.8V                      (4) 111.7V (5) 109.5V                      (5) 111.7V (6) 110.8V                      (6) 111.7V (7) 102.0V                      (7) 97.4V (8) 100.6V                      (8) 97.4V (9) 101.3V                      (9) 98.1V <u>Vo=Vnormal</u> <u>Vo=Vnormal</u> (1) 103.3V                      (1) 103.5V
5	Input Capacitor Voltage	C5 Rated : 180u/450V	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) 443V (2) 440V (3) 449V (4) 429V



6	Control IC Voltage Test	<p>PWM IC U5 Rated : 8.9V~ 15.5V</p> <p>PFC IC U2: Rated : 9.75V~ 20V</p> <p>O/P IC U100 Rated : 4.2V~35V</p> <p>U103 Rated: 4.5V~ 36V</p> <p>U104 Rated: 3.3~24 V</p>	<p>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</p>	<p>U2/U5: (1) 14.30V (2) 14.30V (3) 14.30V (4) 14.59V (5) 14.30V</p> <p>U100/U103/U104: (1) 11.42V (2) 11.59V (3) 11.50V (4) 11.42V (5) 11.50V</p>
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## ■ SAFETY& E.M.C. TEST

### SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	<p>I/P-O/P: 4 K VAC/min I/P-FG : 2 K VAC/min O/P-FG: 1.5 KVAC/min O/P-DC OK: 0.5 KVAC/min</p>	<p>I/P-O/P: 4.4 KVAC/min I/P-FG: 2.4 KVAC/min O/P-FG: 1.8 KVAC/min O/P-DC OK: 0.6 KVAC/min Ta:25°C</p>	<p>I/P-O/P: 4.88 mA I/P - F G : 3.53 mA O/P - F G : 5.72 mA O/P-DC OK: 0.008 mA NO DAMAGE</p>
2	ISOLATION RESISTANCE	<p>I/P-O/P: 500 VDC&gt;100MΩ O/P-FG: 500 VDC&gt;100MΩ I/P - F G : 500 VDC &gt;100MΩ</p>	<p>I/P-O/P: 600 VDC I/P-FG: 600 VDC O/P-FG: 600 VDC Ta:25°C</p>	<p>I/P-O/P: 50 GΩ I/P - F G : 50 GΩ O/P - F G : 50 GΩ NO DAMAGE</p>
3	GROUNDING CONTINUITY	<p>FG(PE) TO CHASSIS OR TRACE &lt; 100 mΩ</p>	<p>40A / 2min Ta:25°C</p>	<p>8mΩ</p>

### E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	HARMONIC	<p>BS EN/EN61000-3-2 ■ CLASS A</p>	<p>I/P:230VAC/50HZ O/P:FULL LOAD Ta:25°C</p>	<p>■ PASS □ FAIL</p>
2	CONDUCTION	<p>BS EN/EN55032 (CISPR32) / BS EN/EN61204-3 / CNS15936 CLASS B</p>	<p>I/P : 230 VAC (50HZ)/115 VAC (60HZ) O/P: FULL/50% LOAD/10% LOAD Ta : 25°C</p>	<p>PASS Test by certified Lab</p>
3	RADIATION	<p>BS EN/EN55032 (CISPR32) / BS EN/EN61204-3 / CNS15936 CLASS B</p>	<p>I/P : 230 VAC (50HZ)/115 VAC (60HZ) O/P: FULL/50% LOAD/10% LOAD Ta : 25°C</p>	<p>PASS Test by certified Lab</p>





4	E.S.D	BS EN/EN61000-4-2 AIR : 8KV / Contact : 4KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	<input checked="" type="checkbox"/> CRITERIA A <input type="checkbox"/> CRITERIA B
5	E.F.T	BS EN/EN61000-4-4 INPUT : 2KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	<input checked="" type="checkbox"/> CRITERIA A <input type="checkbox"/> CRITERIA B
6	SURGE	BS EN/EN61000-4-5 2KV/Line-Line 4KV/Line-Line-Chassis	I/P : 230 VAC/50HZ O/P : MIN/FULL LOAD D Ta : 25°C	<input checked="" type="checkbox"/> CRITERIA A <input type="checkbox"/> CRITERIA B
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 : XDR-960E-24 1. ROOM AMBIENT BURN-IN : 2HRS I/P : 230VAC O/P : FULL LOAD Ta= 21.7 °C 2. HIGH AMBIENT BURN-IN : 2HRS I/P : 230VAC O/P : FULL LOAD Ta= 51.8 °C																																																																										
				<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta=21.7°C</th> <th>HIGH AMBIENT Ta=51.8°C</th> </tr> </thead> <tbody> <tr><td>1</td><td>C2</td><td>65.3°C</td><td>94.4°C</td></tr> <tr><td>2</td><td>LF2</td><td>69.8°C</td><td>99.1°C</td></tr> <tr><td>3</td><td>BD1</td><td>91.9°C</td><td>116°C</td></tr> <tr><td>4</td><td>RTH2</td><td>73.6°C</td><td>102.4°C</td></tr> <tr><td>6</td><td>L5</td><td>76.7°C</td><td>105.4°C</td></tr> <tr><td>7</td><td>Q4</td><td>63.5°C</td><td>91.9°C</td></tr> <tr><td>8</td><td>Q2</td><td>67.4°C</td><td>95.5°C</td></tr> <tr><td>9</td><td>C60</td><td>55°C</td><td>84°C</td></tr> <tr><td>10</td><td>C5</td><td>55.7°C</td><td>84.4°C</td></tr> <tr><td>11</td><td>C6</td><td>53.6°C</td><td>82.2°C</td></tr> <tr><td>12</td><td>Q5</td><td>62.3°C</td><td>90.5°C</td></tr> <tr><td>13</td><td>U2</td><td>58.5°C</td><td>86.7°C</td></tr> <tr><td>14</td><td>D19</td><td>70.2°C</td><td>98.2°C</td></tr> <tr><td>15</td><td>U1</td><td>66.2°C</td><td>93.5°C</td></tr> <tr><td>16</td><td>D18</td><td>64.2°C</td><td>92.1°C</td></tr> <tr><td>17</td><td>D16</td><td>62.5°C</td><td>90.4°C</td></tr> <tr><td>18</td><td>Q14</td><td>63.5°C</td><td>92.5°C</td></tr> </tbody> </table>	NO	Position	ROOM AMBIENT Ta=21.7°C	HIGH AMBIENT Ta=51.8°C	1	C2	65.3°C	94.4°C	2	LF2	69.8°C	99.1°C	3	BD1	91.9°C	116°C	4	RTH2	73.6°C	102.4°C	6	L5	76.7°C	105.4°C	7	Q4	63.5°C	91.9°C	8	Q2	67.4°C	95.5°C	9	C60	55°C	84°C	10	C5	55.7°C	84.4°C	11	C6	53.6°C	82.2°C	12	Q5	62.3°C	90.5°C	13	U2	58.5°C	86.7°C	14	D19	70.2°C	98.2°C	15	U1	66.2°C	93.5°C	16	D18	64.2°C	92.1°C	17	D16	62.5°C	90.4°C	18	Q14	63.5°C	92.5°C
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15	U1	66.2°C	93.5°C																																																																									
16	D18	64.2°C	92.1°C																																																																									
17	D16	62.5°C	90.4°C																																																																									
18	Q14	63.5°C	92.5°C																																																																									



		NO	Position	ROOM AMBIENT Ta=21.7°C	HIGH AMBIENT Ta=51.8°C
		19	T1coil	72.1°C	101.3°C
		20	T1core	65.3°C	94.4°C
		21	C52	67.5°C	96.4°C
		22	C63	61.9°C	92.2°C
		23	T2	52.5°C	83.5°C
		24	C134	62.6°C	92.4°C
		25	D103	65.1°C	93.8°C
		26	U5	67.6°C	96.6°C
		27	U6	74.4°C	103.5°C
		28	Q9	66.6°C	94.7°C
		29	D23	60.9°C	89.7°C
		30	C51	62.9°C	91.9°C
		31	Q101	67.5°C	97.2°C
		32	Q103	69.4°C	99.1°C
		33	Q105	71.2°C	101.3°C
		34	RTH3	63.5°C	93.1°C
		35	U100	70.3°C	101.8°C
		36	U103	66.1°C	94.5°C
		37	U9	61.6°C	90.3°C
		38	D32	64.9°C	93.1°C
		39	U102	79°C	109.1°C
		40	ZNR1	53.2°C	82.7°C
		41	LF100	78.9°C	108.7°C
		42	C107	71.4°C	100°C
		43	C108	70.5°C	99.6°C
		44	RY100	67.3°C	96.2°C
		45	C103	68°C	98.9°C
		46	R105	66.1°C	97.2°C
		47	TSW1	63.3°C	91.5°C
2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR ( MIN )		I/P : 230 VAC O/P : 118.8%LOAD Ta : 25°C	TEST : OK
3	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR		I/P : 264VAC/200VAC O/P : 100%LOAD Ta= -35 °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	-30~50°C	1. Thermal shock Temperature : -35°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 : 10min/sweep cycle (4) Acceleration : 3G (5) Test Time : 180min in each axis (X.Y.Z) (6) Ta : 25°C
9	CAPACITOR LIFE CYCLE	SUPPOSE C109 IS THE MOST CRITICAL COMPONENT (1) I/P : 230VAC O/P : FULL LOAD Ta= 25 °C LIFE TIME (2) I/P : 230VAC O/P : FULL LOAD Ta=50 °C LIFE TIME (3) I/P : 230VAC O/P : 75% LOAD Ta= 50°C LIFE TIME (4) I/P : 230VAC O/P : 50% LOAD Ta= 50 °C LIFE TIME	(1) 154834.9HRS (2) 29952.1HRS (3) 116959.3HRS (4) 303826.9HRS
10	MTBF	Conducted by Parts Stress Analysis Prediction Khrs min. Telcordia SR-332 (Bellcore); K 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	Hanxr	Liutt	Wangzd

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