



Test Report: RSDH-300-48

300W High Reliable 250~1500Vdc Ultra Wide Input
DC-DC Converter

■ 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

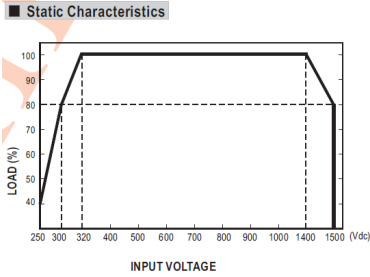
OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT VOLTAGE ADJUST RANGE	CH1: 48V~58V	I/P : 800 VDC O/P : MIN LOAD Ta : 25°C	45.889V~60.26V/800VDC
2	OUTPUT VOLTAGE TOLERANCE (Max)	V1: -1.0%~ +1.0%	I/P: 1500VDC / 250 VDC O/P:FULL/ MIN. LOAD Ta:25°C	V1: -0.0333%~ 0.0354%
3	LINE REGULATION (Max)	V1: -0.5%~+0.5 %	I/P: 1500VDC / 250 VDC O/P:FULL LOAD Ta:25°C	V1: -0.0271%~ 0.0063%
4	LOAD REGULATION (Max)	V1: -1.0%~+1.0 %	I/P: 800VDC O/P:FULL ~MIN LOAD Ta:25°C	V1: -0.0333%~ 0.0354%
5	OVER/UNDERSHOOT TEST	< ±5%	I/P: 800 VDC O/P: FULL LOAD Ta:25°C	TEST: 2.1%
6	RIPPLE & NOISE (Max)	V1: 300mVp-p	I/P: 800 VDC O/P: FULL LOAD Ta:25°C	48 mVp-p
		<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	DYNAMIC LOAD	V1: 4800mVp-p	I/P: 800VDC O/P: (1)FULL /MIN LOAD 50%DUTY / 120HZ (2)FULL /MIN LOAD 50%DUTY / 1KHZ (3)FULL /MIN LOAD 50%DUTY / 500HZ (4)FULL /MIN LOAD 50%DUTY / 3KHZ (5)FULL /MIN LOAD 50%DUTY / 8KHZ (6)FULL /MIN LOAD 50%DUTY /	(1) 700mVp-p (2) 680mVp-p (3) 590mVp-p (4) 293mVp-p (5) 342mVp-p (6) 358mVp-p

		10KHZ Ta:25°C	
<p>FULL /50% LOAD 50%DUTY / 120HZ</p>		<p>FULL /50% LOAD 50%DUTY / 1KHZ</p>	
<p>FULL /50% LOAD 50%DUTY / 3KHZ</p>		<p>FULL /50% LOAD 50%DUTY / 500HZ</p>	
<p>FULL /50% LOAD 50%DUTY / 10KHZ</p>		<p>FULL /50% LOAD 50%DUTY / 8KHZ</p>	
8	EXERNAL CAPACITANCE LOAD(Max.)	2000uF	<p>I/P : 800VDC O/P : TESTING LOAD Ta : 25°C</p> <p>TEST: <u>OK</u></p>

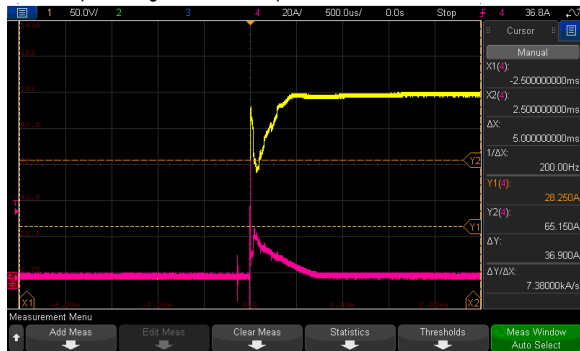


INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	250VDC~ 1500 VDC 	I/P: TESTING O/P:FULL LOAD Ta:25°C I/P: LOW-LINE-0.2= 249.8V HIGH-LINE+3V= 1503V O/P:FULL/MIN LOAD (PLEASE CHECK DERATING CURVE) ON: 30 Sec . OFF: 30 Sec 10MIN (POWER ON/OFF NO DAMAGE)	232.73V~ 1400 /FULL LOAD 232.15V~ 1500 V/80% LOAD 230.46V~ 1500 V/40% LOAD TEST: <u>OK</u>
2	EFFICIENCY(TYP)	91%/300VDC 91%/800VDC 87%/1500VDC	I/P: 300VDC (80% LOAD) I/P: 800VDC I/P: 1500VDC (80% LOAD) O/P:FULL LOAD Ta:25°C	92.42%/300VDC 92.48%/800VDC 87.31%/1500VDC
3	INRUSH CURRENT(TYP)	120A/300VDC 300A/800VDC 500A/1500VDC COLD START	I/P: 300VDC (80% LOAD) I/P: 800VDC I/P: 1500VDC (80% LOAD) O/P:FULL LOAD Ta:25°C	I = 28.25A/ 300VDC I = 91.25A/ 800VDC I = 175.325A/ 1500VDC

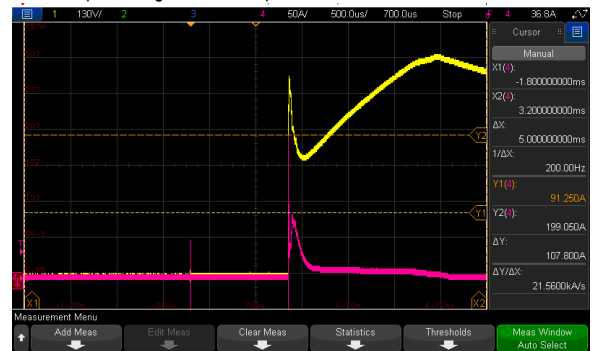
INPUT=250VDC @ TEST LOAD

CH1: DC Input Voltage CH4: Input current



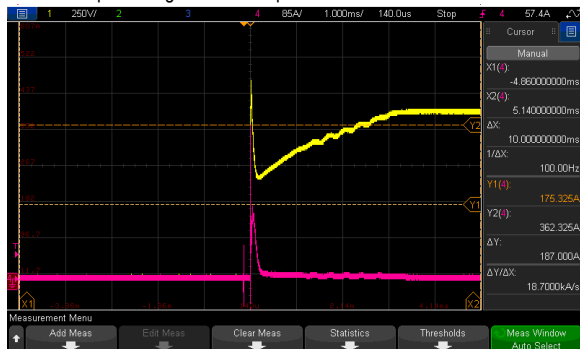
INPUT=800VDC @ FULL LOAD

CH1: DC Input Voltage CH4: Input current



INPUT=1500VDC @ TEST LOAD

CH1: DC Input Voltage CH4: Input current



PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER LOAD PROTECTION	105 %~ 135 % RATED OUTPUT POWER Protection type: Hiccup mode when output voltage < 55%, recovers automatically after condition is removed; Constant current limiting, recovers automatically after fault condition is removed within 55% ~ 100% rated output voltage	I/P: 1400 VDC I/P: 800 VDC I/P: 320 VDC O/P: TESTING Ta: 25°C	120.69%/1400VDC 121.11%/800VDC 120.68%320VDC PROTECTION TYPE : Hiccup mode when output voltage < 55%, recovers automatically after condition is removed; Constant current limiting, recovers automatically after fault condition is removed within 55% ~ 100% rated output voltage
2	OVER VOLTAGE PROTECTION	CH: 62V~70V Protection type : Hiccup mode, recovers automatically after fault condition is removed	I/P: 1500VDC I/P: 800VDC I/P: 250VDC O/P: MIN LOAD Ta: 25°C	63.40V/ 1500 VDC 63.40V/ 800 VDC 63.40V/ 250 VDC PROTECTION TYPE : Hiccup mode, recovers automatically after fault condition is removed
3	OVER TEMPERATURE PROTECTION	SPEC: NO DAMAGE Protection type : Hiccup mode, recovers automatically after fault condition is removed	I/P: 250VDC I/P: 1500VDC O/P: FULL LOAD	O.T.P Active OK PROTECTION TYPE : Hiccup mode, recovers automatically after fault condition is removed
4	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE Hiccup mode , recovers automatically after fault condition is removed	I/P: 250VDC I/P: 1500VDC O/P: FULL LOAD Ta: 25°C	NO DAMAGE PROTECTION TYPE : Hiccup mode , recovers automatically after fault condition is removed
5	DC INPUT UNDER VOLTAGE LOCKOUT	Under voltage protection range: 200 ~ 225Vdc , Under voltage release range: 225 ~ 246.5Vdc	I/P: TESTING O/P: TEST LOAD Ta: 25°C	NO DAMAGE Under voltage protection range TEST: <u>214.80</u> Vdc , Under voltage release range TEST: <u>232.60</u> Vdc ,
6.	DC INPUT REVERSE POLARITY	By internal Bridge Diode, no damage, recovers automatically after fault condition removed	I/P: 1500 VDC O/P: FULL LOAD Ta: 25°C	TEST: <u>OK</u> NO DAMAGE, recovers automatically after fault condition is removed



COMPONENT STRESS TEST

N O	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT																																				
1	PWM Transistor (D to S) or (C to E) Peak Voltage	Q1/Q2/Q3/Q4 Rated: 28 A/ 650 V	DC ON/OFF I/P: High-Line +3V = 1503V 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	<table border="0"> <tr> <td>Q1</td> <td>Q2</td> </tr> <tr> <td>VDS:</td> <td>VDS:</td> </tr> <tr> <td>(1) 476V</td> <td>(1) 488V</td> </tr> <tr> <td>(2) 540V</td> <td>(2) 536V</td> </tr> <tr> <td>(3) 476V</td> <td>(3) 496V</td> </tr> <tr> <td>(4) 476V</td> <td>(4) 492V</td> </tr> <tr> <td>(5) 476V</td> <td>(5) 488V</td> </tr> <tr> <td>(6) 476V</td> <td>(6) 496V</td> </tr> <tr> <td>(7) 467V</td> <td>(7) 492V</td> </tr> <tr> <td>Q3</td> <td>Q4</td> </tr> <tr> <td>VDS:</td> <td>VDS:</td> </tr> <tr> <td>(1) 467V</td> <td>(1) 484V</td> </tr> <tr> <td>(2) 512V</td> <td>(2) 516V</td> </tr> <tr> <td>(3) 467V</td> <td>(3) 488V</td> </tr> <tr> <td>(4) 467V</td> <td>(4) 484V</td> </tr> <tr> <td>(5) 467V</td> <td>(5) 484V</td> </tr> <tr> <td>(6) 467V</td> <td>(6) 492V</td> </tr> <tr> <td>(7) 463V</td> <td>(7) 492V</td> </tr> </table>	Q1	Q2	VDS:	VDS:	(1) 476V	(1) 488V	(2) 540V	(2) 536V	(3) 476V	(3) 496V	(4) 476V	(4) 492V	(5) 476V	(5) 488V	(6) 476V	(6) 496V	(7) 467V	(7) 492V	Q3	Q4	VDS:	VDS:	(1) 467V	(1) 484V	(2) 512V	(2) 516V	(3) 467V	(3) 488V	(4) 467V	(4) 484V	(5) 467V	(5) 484V	(6) 467V	(6) 492V	(7) 463V	(7) 492V
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2	Diode Peak Voltage	Q100 /Q103 Rated: 20 A/600 V	DC ON/OFF I/P: High-Line +3V =1503 V <u>Vo=Vmax</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 Vo=Vnormal O/P: (1) Full Load Ta:25°C	<table border="0"> <tr> <td>Q100:</td> <td>Q103:</td> </tr> <tr> <td>VDS:</td> <td>VDS:</td> </tr> <tr> <td><u>Vo=Vmax</u></td> <td><u>Vo=Vmax</u></td> </tr> <tr> <td>(1) 519V</td> <td>(1) 559V</td> </tr> <tr> <td>(2) 510V</td> <td>(2) 523V</td> </tr> <tr> <td>(3) 518V</td> <td>(3) 543V</td> </tr> <tr> <td>(4) 514V</td> <td>(4) 519V</td> </tr> <tr> <td>(5) 510V</td> <td>(5) 523V</td> </tr> <tr> <td>(6) 554V</td> <td>(6) 531V</td> </tr> <tr> <td>(7) 519V</td> <td>(7) 555V</td> </tr> <tr> <td>(8) 515V</td> <td>(8) 555V</td> </tr> <tr> <td>Vo=Vnormal</td> <td>Vo=Vnormal</td> </tr> <tr> <td>(1) 503V</td> <td>(1) 553V</td> </tr> </table>	Q100:	Q103:	VDS:	VDS:	<u>Vo=Vmax</u>	<u>Vo=Vmax</u>	(1) 519V	(1) 559V	(2) 510V	(2) 523V	(3) 518V	(3) 543V	(4) 514V	(4) 519V	(5) 510V	(5) 523V	(6) 554V	(6) 531V	(7) 519V	(7) 555V	(8) 515V	(8) 555V	Vo=Vnormal	Vo=Vnormal	(1) 503V	(1) 553V										
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3	Input Capacitor Voltage	C5/C6/C7/C8 Rated: 120μ /420 V	I/P: High-Line +3V =1503V O/P: (1)Full Load input on/off (2) Min load input on /Off (3)Full Load /Min load Change (4)Full load continue	<table border="0"> <tr> <td>C5</td> <td>C6</td> </tr> <tr> <td>(1) 391V</td> <td>(1) 383V</td> </tr> <tr> <td>(2) 391V</td> <td>(2) 383V</td> </tr> <tr> <td>(3) 383V</td> <td>(3) 383V</td> </tr> <tr> <td>(4) 383V</td> <td>(4) 383V</td> </tr> </table>	C5	C6	(1) 391V	(1) 383V	(2) 391V	(2) 383V	(3) 383V	(3) 383V	(4) 383V	(4) 383V																										
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			Ta:25°C	C7 (1) 383V (2) 383V (3) 375V (4) 375V	C8 (1) 387V (2) 387V (3) 379V (4) 375V
4	Control IC Voltage Test	PWM IC U1 Rated:8.3V~ 28 V I/P IC U4 Rated: 6.5V~ 30 V IC U200 Rated:3.5V~ 36V	DC ON/OFF I/P: High-Line +3V =1503 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/U4: (1) 17.0V (2) 17.2V (3) 17.3V (4) 17.2V (5) 17.0V U200: (1) 20.5V (2) 20.5V (3) 20.5V (4) 35.9V (5) 20.5V	
7	Clamp Diode Peak Voltage	D1 / D2 / D3/ D4 Rated : 1000V /1 A	I/P : High-Line +3V =1503V DC ON/OFF O/P : (1) Dynamic Load 90%Duty/1KHz (2) Full load continue Ta : 25°C	D1: (1) 429V (2) 429V D3: (1) 424V (2) 421V	D2: (1) 429V (2) 429V D4: (1) 421V (2) 421V

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P:4KVAC/min I/P-FG: 3.75 KVAC/min O/P-FG: 2KVAC/min	I/P-O/P: 4.4 KVAC/min I/P-FG: 4.125 KVAC/min O/P-FG: 2.4 KVAC/min Ta:25°C	I/P-O/P: 8.9 mA I/P-FG: 7.39 mA O/P-FG: 7.9 mA NO DAMAGE
2	ISOLATION RESISTANCE	I/P-O/P:500VDC > 100MΩ	I/P-O/P: 600 VDC Ta:25°C	I/P-O/P: 9999 MΩ NO DAMAGE
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40A / 2min Ta:25°C	2mΩ

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	RADIATION	BS EN/EN55032(CISPR32) CLASS A	I/P: 400VDC/800 VDC O/P:FULL LOAD Ta:25°C	PASS Test by certified Lab
2	CONDUCTION	BS EN/EN55032(CISPR32) CLASS A	I/P: 400VDC/800 VDC O/P:FULL LOAD	PASS Test by certified Lab

			Ta:25°C	
3	E.S.D	BS EN/EN61000-4-2 Level 3, 8KV air Level 2, 4KV contact	I/P: 400VDC/800 VDC O/P:FULL LOAD Ta:25°C	<input checked="" type="checkbox"/> CRITERIA A <input type="checkbox"/> CRITERIA B
4	E.F.T	BS EN/EN61000-4-4 INPUT: 2KV	I/P: 400VDC/800 VDC O/P:FULL LOAD Ta:25°C	<input checked="" type="checkbox"/> CRITERIA A <input type="checkbox"/> CRITERIA B
5	SURGE	BS EN/EN61000-4-5 Level 4, 2KV/Vin+ ~ Vin-, 4KV Vin~FG	I/P: 400VDC/800 VDC O/P:FULL LOAD Ta:25°C	<input checked="" type="checkbox"/> CRITERIA A <input type="checkbox"/> CRITERIA B
6	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 : RSDH-300-48 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 800 VDC O/P : FULL LOAD Ta= 25 °C 2. HIGH AMBIENT BURN-IN : 2 HRS I/P : 800 VDC O/P : FULL LOAD Ta= 55 °C																																																																										
				<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta= 25 °C</th> <th>HIGH AMBIENT Ta= 55 °C</th> </tr> </thead> <tbody> <tr><td>1</td><td>C1</td><td>53.9°C</td><td>78.4°C</td></tr> <tr><td>2</td><td>RTH1</td><td>65.3°C</td><td>86.0°C</td></tr> <tr><td>3</td><td>R84</td><td>62.0°C</td><td>85.6°C</td></tr> <tr><td>4</td><td>LF2</td><td>62.4°C</td><td>85.9°C</td></tr> <tr><td>5</td><td>C11</td><td>60.3°C</td><td>83.8°C</td></tr> <tr><td>6</td><td>BD1</td><td>64.8°C</td><td>87.9°C</td></tr> <tr><td>7</td><td>C12</td><td>55.7°C</td><td>80.4°C</td></tr> <tr><td>8</td><td>BD2</td><td>64.3°C</td><td>88.1°C</td></tr> <tr><td>9</td><td>RA50</td><td>66.3°C</td><td>90.8°C</td></tr> <tr><td>10</td><td>C8</td><td>63.1°C</td><td>87.3°C</td></tr> <tr><td>11</td><td>C56</td><td>61.9°C</td><td>86.4°C</td></tr> <tr><td>12</td><td>R54</td><td>65.2°C</td><td>89.6°C</td></tr> <tr><td>13</td><td>D4</td><td>66.6°C</td><td>91.5°C</td></tr> <tr><td>14</td><td>R46</td><td>66.7°C</td><td>91.1°C</td></tr> <tr><td>15</td><td>D2</td><td>68.4°C</td><td>93.2°C</td></tr> <tr><td>16</td><td>C6</td><td>64.6°C</td><td>89.0°C</td></tr> <tr><td>17</td><td>ZNR4</td><td>59.3°C</td><td>83.7°C</td></tr> </tbody> </table>	NO	Position	ROOM AMBIENT Ta= 25 °C	HIGH AMBIENT Ta= 55 °C	1	C1	53.9°C	78.4°C	2	RTH1	65.3°C	86.0°C	3	R84	62.0°C	85.6°C	4	LF2	62.4°C	85.9°C	5	C11	60.3°C	83.8°C	6	BD1	64.8°C	87.9°C	7	C12	55.7°C	80.4°C	8	BD2	64.3°C	88.1°C	9	RA50	66.3°C	90.8°C	10	C8	63.1°C	87.3°C	11	C56	61.9°C	86.4°C	12	R54	65.2°C	89.6°C	13	D4	66.6°C	91.5°C	14	R46	66.7°C	91.1°C	15	D2	68.4°C	93.2°C	16	C6	64.6°C	89.0°C	17	ZNR4	59.3°C	83.7°C
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4	LF2	62.4°C	85.9°C																																																																									
5	C11	60.3°C	83.8°C																																																																									
6	BD1	64.8°C	87.9°C																																																																									
7	C12	55.7°C	80.4°C																																																																									
8	BD2	64.3°C	88.1°C																																																																									
9	RA50	66.3°C	90.8°C																																																																									
10	C8	63.1°C	87.3°C																																																																									
11	C56	61.9°C	86.4°C																																																																									
12	R54	65.2°C	89.6°C																																																																									
13	D4	66.6°C	91.5°C																																																																									
14	R46	66.7°C	91.1°C																																																																									
15	D2	68.4°C	93.2°C																																																																									
16	C6	64.6°C	89.0°C																																																																									
17	ZNR4	59.3°C	83.7°C																																																																									



		NO	Position	ROOM AMBIENT Ta= 25 °C	HIGH AMBIENT Ta= 55 °C
		18	Q9	64.6°C	89.3°C
		19	Q10	54.2°C	79.5°C
		20	U4	56.6°C	82.5°C
		21	T3	66.1°C	90.2°C
		22	U1	67.1°C	92.0°C
		23	C78	67.6°C	91.8°C
		24	TSW1	68.2°C	93.6°C
		25	T2 coil	74.4°C	100.9°C
		26	T2 core	72.9°C	98.6°C
		27	C202	62.8°C	87.8°C
		28	R101	56.8°C	88.4°C
		29	T1 coil	75.9°C	99.6°C
		30	T1 core	72.6°C	96.1°C
		31	C106	62.6°C	87.1°C
		32	D200	66.9°C	90.7°C
		33	C108	62.0°C	86.8°C
		34	C117	60.0°C	85.6°C
		35	LF100	63.0°C	87.4°C
		36	R232	61.2°C	86.9°C
		37	U200	60.5°C	85.8°C
		38	Q105	65.9°C	91.1°C
		39	Q104	68.1°C	93.1°C
		40	Q103	66.1°C	90.8°C
		41	Q100	66.9°C	90.6°C
		42	Q101	68.9°C	92.1°C
		43	Q102	66.7°C	90.5°C
		44	Q1	68.3°C	93.8°C
		45	Q2	67.3°C	92.4°C
		46	Q3	66.1°C	91.4°C
		47	Q4	66.4°C	91.7°C
		48	D10	60.8°C	85.6°C
		49	Q200	66.3°C	89.7°C
		50	U2	64.0°C	89.0°C
2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)		I/P : 800 VDC O/P : 125.61 %LOAD Ta : 25°C	TEST : OK
3	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR		I/P : 300 VDC / 1500 VDC O/P : 100% LOAD Ta= -5 °C O/P : 50% LOAD Ta= -45 °C	TEST : OK
4	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 55 °C/95 %R.H NO DAMAGE		I/P : 1503 VDC O/P : FULL LOAD Ta= 55 °C HUMIDITY= 95 %R.H	TEST : OK



5	TEMPERATURE COEFFICIENT	±0.03%/°C(0 ~ 55°C)	I/P : 800 VDC O/P : FULL LOAD	± 0.008%/°C(0~55°C)
6	STORAGE TEMPERATURE TEST	-40~80°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	-40~55°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: 800 VDC / FULL LOAD DC ON 3sec/DC OFF 1sec TEST 1cycle: 800 VDC / FULL LOAD Burn In Test	
8	VIBRATION TEST	10 ~ 500Hz, 3G 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 : 4G (5) Test Time : 180min in each axis (X.Y.Z) (6) Ta : 25°C	
9	CAPACITOR LIFE CYCLE	SUPPOSE C106 IS THE MOST CRITICAL COMPONENT (1) I/P : 800VDC O/P : FULL LOAD Ta= 25 °C LIFE TIME (2) I/P : 800VDC O/P : FULL LOAD Ta= 55 °C LIFE TIME (3) I/P : 800VDC O/P : 75% LOAD Ta= 55 °C LIFE TIME (4) I/P : 800VDC O/P : 50% LOAD Ta= 55 °C LIFE TIME	(1) 251038.2HRS (2) 45942.7HRS (3) 65273.1HRS (4) 111543.9HRS	
10	MTBF	Conducted by Parts Stress Analysis Prediction 277.9K hrs min. Telcordia SR-332 (Bellcore) ; 99.1K hrs min. MIL-HDBK-217F (25°C)		
11	Ongoing Reliability Test	I/P : 800VDC O/P : FULL LOAD TA=50°C Demonstration Mean Time Between Failure : 30000 hours		

TEST RESULT	TESTER	REVIEW	APPROVAL
PASS	Yuwei	Liutt	Wangdz

2020.10.1 TAG-QA-009