



Test Report: NTU-1700-148

1700W High Reliable True Sine Wave With UPS DC-AC Power Inverter

- **DESIGN VERIFY TEST**
 - Output Function Test
 - Input Function Test
 - Protection Function Test
 - Control Function Test
 - APPLICATION 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	RATED POWER	1500W	IP: 48VDC Ta:25°C	<u>1524</u> W
2	MAXIMUM OUTPUT POWER (TYP)	(1)1750W/180sec. (2)2250w/10sec (3)SURGE POWER 3000W FOR 30CYCLE Vin (30 ± 5 CYCLE)	IP: 50VDC OP:TESTING LOAD Ta:25°C	(1) <u>108.3</u> V / <u>15.68</u> A / <u>180.09</u> Sec (2) <u>107.99</u> V / <u>21.29</u> A / <u>10.06</u> Sec (3) <u>108.13</u> V / <u>28.18</u> A / <u>34</u> Cycle

CH3:O/P VAC CH4:O/P IAC

Fig1

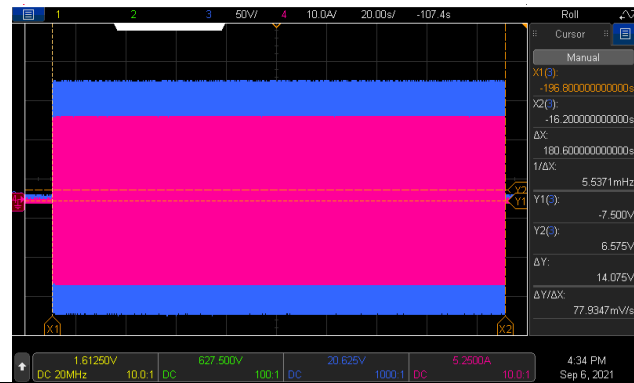


Fig2

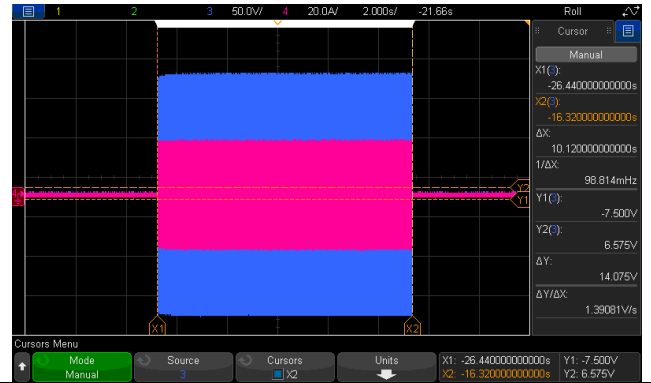
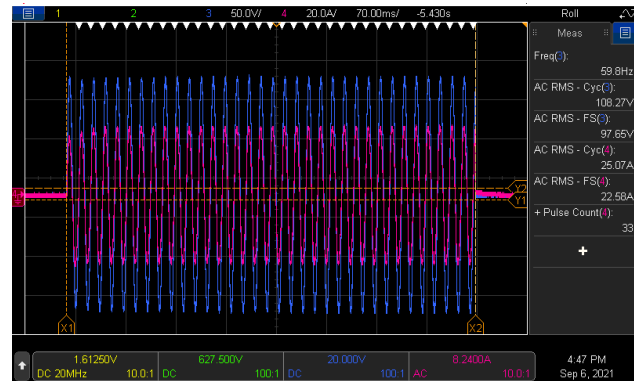


Fig3



3	AC Voltage	100 / 110 / 115 / 120Vac selectable by DIP S.W	IP: 48VDC OP: FULL LOAD Ta:25°C	DIP S.W 100VAC: <u>99.22</u> V DIP S.W 110VAC: <u>109.36</u> V DIP S.W 115VAC: <u>114.36</u> V DIP S.W 120VAC: <u>119.35</u> V
4	FREQUENCY	50/60Hz (±0.1HZ) selectable by DIP S.W	IP: 48VDC OP: FULL LOAD Ta:25°C	DIP S.W 50HZ: <u>50.042</u> HZ DIP S.W 60HZ: <u>59.958</u> HZ
5	WAVEFORM	True sine wave (THD<3%)	IP: 50VDC OP: 1350W (1) Vo(min) (2) Vo(nor) (3) Vo(max) Ta:25°C	(1) <u>1.342</u> % / Vo(min) (2) <u>1.138</u> % / Vo(nor) (3) <u>1.081</u> % / Vo(max)

CH3:O/P VAC CH4:O/P IAC

Fig1

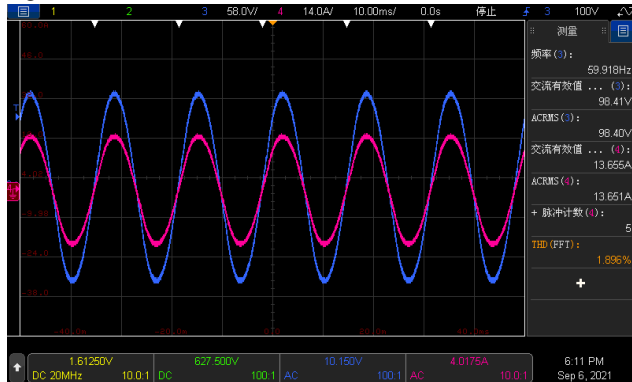


Fig2

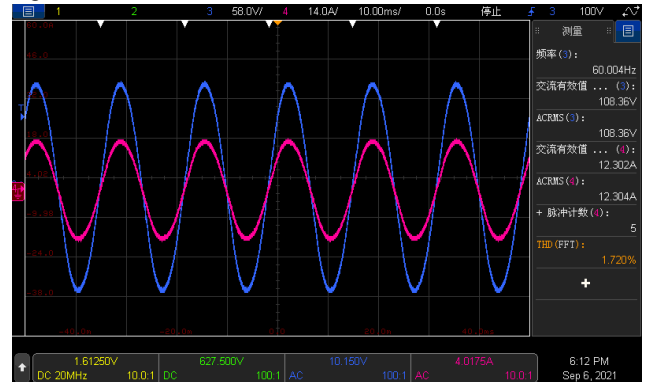
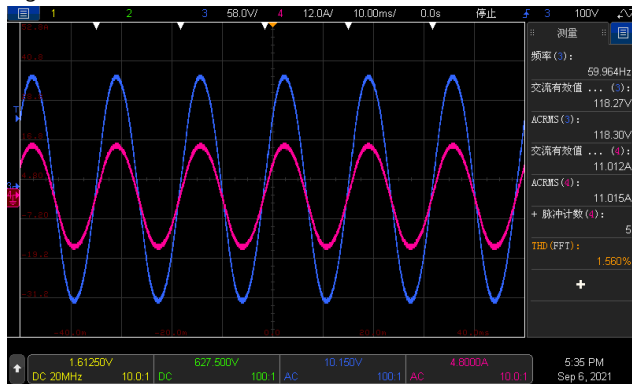


Fig3



6	AC REGULATION	±3%	IP: 50VDC OP: 1350W Ta:25°C	<u> -0.62 </u> %
7	Overshoot /Undershoot	<±10%	IP: 48VDC OP: (1) full load turn on (2) no load turn on (3) full /no load change Ta:25°C	(1) <u> -5.82 </u> % (2) <u> -3.64 </u> % (3) <u> -3.82 </u> %
8	O/P voltage DC offset	Vin(nor)= <u> 48 </u> V · Vo <200mV · no load : <u> 61.3 </u> mV / full load: <u> 47.8 </u> mV		

9	LED STATUS	<ul style="list-style-type: none"> Status test <table border="1"> <thead> <tr> <th>LED</th> <th>Status</th> <th>RESULT</th> </tr> </thead> <tbody> <tr> <td>Green ●</td> <td>Inverter OK</td> <td>OK</td> </tr> <tr> <td>Orange ●</td> <td>Remote off</td> <td>OK</td> </tr> <tr> <td>Orange ☀</td> <td>No AC Output at Saving mode</td> <td>OK</td> </tr> <tr> <td>Red ●</td> <td>Inverter Fail</td> <td>OK</td> </tr> </tbody> </table> Battery test <table border="1"> <thead> <tr> <th>LED</th> <th>Battery RANGE</th> <th>RESULT</th> </tr> </thead> <tbody> <tr> <td>Green ●</td> <td>50.0~62.0 Vdc±1V</td> <td>50.172 Vdc ~ 61.97 Vdc</td> </tr> <tr> <td>Orange ●</td> <td>44.0~50.0Vdc ±1V</td> <td>44.14Vdc ~ 50.151 Vdc</td> </tr> <tr> <td>Red ●</td> <td><44.0 Vdc ±1V > 62.0Vdc±1V</td> <td>< 44.02 Vdc > 62.22 Vdc</td> </tr> </tbody> </table> Load test <table border="1"> <thead> <tr> <th>LED</th> <th>LOAD RANGE</th> <th>RESULT</th> </tr> </thead> <tbody> <tr> <td>Green ●</td> <td>Min. load ~ 40%±5% LOAD</td> <td>Min. load ~41.13 %</td> </tr> <tr> <td>Orange ●</td> <td>40%±5% ~ 80%±5% LOAD</td> <td>41.20% ~ 79.8%</td> </tr> <tr> <td>Red ●</td> <td>≥ 80%±5% LOAD</td> <td>≥ 79.87%</td> </tr> </tbody> </table> AC Input <table border="1"> <thead> <tr> <th>LED</th> <th>LOAD RANGE</th> <th>RESULT</th> </tr> </thead> <tbody> <tr> <td>Green ●</td> <td>Utility OK</td> <td>OK</td> </tr> <tr> <td>Green ☀</td> <td>Utility error</td> <td>OK</td> </tr> <tr> <td>Colorless ○</td> <td>Utility disconnected</td> <td>OK</td> </tr> </tbody> </table> 	LED	Status	RESULT	Green ●	Inverter OK	OK	Orange ●	Remote off	OK	Orange ☀	No AC Output at Saving mode	OK	Red ●	Inverter Fail	OK	LED	Battery RANGE	RESULT	Green ●	50.0~62.0 Vdc±1V	50.172 Vdc ~ 61.97 Vdc	Orange ●	44.0~50.0Vdc ±1V	44.14Vdc ~ 50.151 Vdc	Red ●	<44.0 Vdc ±1V > 62.0Vdc±1V	< 44.02 Vdc > 62.22 Vdc	LED	LOAD RANGE	RESULT	Green ●	Min. load ~ 40%±5% LOAD	Min. load ~41.13 %	Orange ●	40%±5% ~ 80%±5% LOAD	41.20% ~ 79.8%	Red ●	≥ 80%±5% LOAD	≥ 79.87%	LED	LOAD RANGE	RESULT	Green ●	Utility OK	OK	Green ☀	Utility error	OK	Colorless ○	Utility disconnected	OK
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INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	VOLTAGE RANGE (TYP)	40VDC~66VDC	IP: TESTING OP:NO LOAD/FULL LOAD Ta:25°C	<u>40.18</u> VDC~ <u>66.01</u> VDC/NO LOAD <u>40.21</u> VDC~ <u>66.03</u> VDC/FULL LOAD



			I/P: LOW-LINE=42V HIGH-LINE=65V O/P:FULL/MIN LOAD (PLEASE CHECK DERATING CURVE) ON:30Sec/OFF:30Sec 10MIN (POWER ON/OFF NO DAMAGE) I/P: 48V O/P:FULL LOAD ON:30ec OFF:30ec 12Hr (POWER ON/OFF NO DAMAGE)	10MIN Test: <u>OK</u> 12Hr Test: <u>OK</u>
2	DC CURRENT (TYP)	37.5A	IP: 48VDC OP:FULL LOAD Ta:25°C	<u>34.56</u> A
3	Power Saving Mode	$\leq 8W$ @standby saving mode $\leq 16W$ @NON-Saving Mode	IP: 48VDC OP:NO LOAD Ta:25°C	<u>6.00</u> W @standby saving mode <u>14.7</u> W @NON-Saving Mode
4	SAVING MODE TO NORMAL	$P_o \geq 25W$	IP: 48VDC OP: TESTING LOAD Ta:25°C	\geq <u>15</u> W
5	NORMAL TO SAVING MODE	$P_o \leq 10W$	IP: 48VDC OP: TESTING LOAD Ta:25°C	\leq <u>11</u> W
6	OFF MODE CURRENT DRAW (Typ.)	$\leq 1mA$	IP: 48VDC OP: Sw off Ta:25°C	<u>0.65</u> mA
7	EFFICIENCY(TYP)	1350W/91%	IP:50VDC OP: $P_o=1350W$ 110V/60HZ Ta:25°C	<u>92.38</u> %



AC UPS MODE (Only for NTU)

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT		
1	AC Taper Voltage Range	AC input high / low line limit:No Load				
		AC Voltage	limit	Voltage Range	RESULT	
		110V	High limit (To INV mode)		Vac >110V +16%±3%	<u>127.2</u> V
			Recovery to high (To AC mode)		Vac <110V+13%±3%	<u>122.8</u> V
			Low limit (To INV mode)		Vac <110V-16%±3%	<u>91.3</u> V
			Recovery to low (To AC mode)		Vac >110V-13%±3%	<u>95.3</u> V
		100V	High limit (To INV mode)		Vac >100V+16%±3%	<u>115.3</u> V
			Recovery to high (To AC mode)		Vac <100V+13%±3%	<u>111.8</u> V
			Low limit (To INV mode)		Vac <100V-16%±3%	<u>83.2</u> V
			Recovery to low (To AC mode)		Vac >100V-13%±3%	<u>87.4</u> V
		115V	High limit (To INV mode)		Vac >115V+16%±3%	<u>132.0</u> V
			Recovery to high (To AC mode)		Vac <115V+13%±3%	<u>129.1</u> V
			Low limit (To INV mode)		Vac <115V-16%±3%	<u>96.2</u> V
			Recovery to low (To AC mode)		Vac >115V-13%±3%	<u>99.3</u> V
		120V	High limit (To INV mode)		Vac >120V+16%±3%	<u>138.0</u> V
			Recovery to high (To AC mode)		Vac <120V+13%±3%	<u>135.6</u> V
			Low limit (To INV mode)		Vac <120V-16%±3%	<u>100.2</u> V
			Recovery to low (To AC mode)		Vac >120V-13%±3%	<u>103.1</u> V
		2	FREQUENCY RANGE	45 ~ 65Hz	IP:48VDC OP: FULL LOAD Ta:25°C	TEST: <u>OK</u>
		3	TRANSFER TIME (TYP)	t<10ms±3ms inverter→by pass	IP: 48VDC OP: (1) no load (2) full load Ta:25°C	(1) no load a. INTER→BY PASS <u>5.4</u> ms b. BY PASS-INVERTER <u>9.2</u> ms (2) full load c. INTER→BY PASS <u>4.88</u> ms d. BY PASS-INVERTER <u>9.2</u> ms

PROTECTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	BAT LOW ALARM	44V±1VDC	IP: TESTING OP:FULL LOAD SW:ON Ta:25°C	<u>44.056</u> V
2	BAT LOW SHUT DOWN	40V±1VDC	IP: TESTING OP: FULL LOAD SW:ON Ta:25°C	<u>40.14</u> V



3	BAT LOW RESTART	50V±1VDC	IP: TESTING OP: FULL LOAD SW:ON Ta:25°C	<u>50.193</u> V
4	BAT HIGH ALARM	62V±1VDC	IP: TESTING OP:FULL LOAD SW:ON Ta:25°C	<u>62.16</u> V
5	BAT HIGH SHUT DOWN	66V±1VDC	IP: TESTING OP: FULL LOAD SW:ON Ta:25°C	<u>66.04</u> V
6	BAT HIGH RESTART	60V±1VDC	IP: TESTING OP: FULL LOAD SW:ON Ta:25°C	<u>60.13</u> V
7	BAT. POLARITY	By internal fuse open	IP: BAT +/- OP: FULL LOAD Ta:25°C	TEST: <u>OK</u>
8	OVER TEMPERATURE	Shut down o/p voltage: re-power on to recover	IP: HI LINE/LOW-LINE OP: FULL LOAD SW:ON Ta:25°C	Shut down o/p voltage, re-power on to recover
9	OUTPUT SHORT	Shut down o/p voltage: re-power on	IP: 48VDC O/P: FULL LOAD SW:ON Ta:25°C	Shut down o/p voltage, re-power on to recover LED DISPLAY: <u>OK</u>
10	OVER LOAD (typ.)	105%~115%LOAD 180sec 115%~150%LOAD 10 sec Shut down o/p voltage, re-power on to recover	IP: 48VDC OP: TESTING SW:ON Ta:25°C	(1) <u>.105.47% ~ 114.33 %</u> <u>180.4</u> sec (2) <u>.115 % ~ 148.67 %</u> <u>10.10</u> sec Shut down o/p voltage, re-power on to recover

CONTROL FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	REMOTE CONTROL	(1).Power ON-OFF remote control by front panel dry contact connector (by RELAY) Open : Normal work Short : Remote off (2).IRC3	IP: 48VDC OP: FULL LOAD Ta:25°C	(1).Open : <u>Normal work</u> Short : <u>Remote off</u> (1).TEST: Vo= <u>5.4</u> mV, Pin= <u>5.8</u> W (2).TEST: <u>OK</u>

APPLICATION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	LAMP	LAMP: <u>808</u> W · turn on <u>OK</u> LAMP: <u>1202</u> W · turn on <u>OK</u> LAMP: <u>1586</u> W · turn on <u>OK</u>	1. Vin=HIGH LINE 2. 110V/60Hz	TEST: <u>OK</u>
2	INDUCTION MOTOR	<u>0.22</u> HP	1. Vin=HIGH LINE 2. 110V/60Hz	TEST: <u>OK</u>



3	SWITCHING POWER SUPPLY	WITH PFC: RSP-1600-48 O/P= <u>1267</u> W	1. Vin=HIGH LINE 2. 110V/60Hz	TEST: <u>OK</u>
		NO PFC: SE-1000-48 O/P= <u>1158</u> W	1. Vin=HIGH LINE 2. 110V/60Hz	TEST: <u>OK</u>

COMPONENT WEAFORM TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	DC TO DC Power Transistor (D to S) or (C to E) Peak Voltage	Q101 /Q114 Rated : 200 V / 65A	I/P: high line O/P:V(max)/Freq 60HZ VDS: O/P: (1)Full Load Turn On (2) Output Short (3)O.L.P(3000W) Turn On (4) NO LOAD Turn On (5) Saving mode (6) bat=OVP full load (7) bat=UVP full load Ta:25°C	Q101 Q114 (1) 184V (1) 167V (2) 185V (2) 167V (3) 183V (3) 167V (4) 185V (4) 169V (5) 185V (5) 167V (6) 183V (6) 165V (7) 116.6V (7) 109.4V
2	DC TO DC Diode Peak Voltage	D 151 Rated :400 V / 20A	I/P: high line O/P:V(max) /Freq 60HZ O/P: (1)Full Load Turn On (2) Output Short (3)O.L.P(3000W) Turn On (4) NO LOAD Turn On (5) Saving mode (6) bat=OVP full load (7) bat=UVP full load Ta:25°C	D151 (1) 278V (2) 296V (3) 278V (4) 282V (5) 285V (6) 278V (7) 274V
3	DC BUS Capacitor Voltage	C161 Rated : 1000u/ 315V	I/P: high line O/P:V(max) /Freq 60HZ O/P: (1)Full Load Turn On (2) Output Short (3)O.L.P(3000W) Turn On (4) NO LOAD Turn On (5) Saving mode (6) bat=OVP full load (7) bat=UVP full load Ta:25°C	C161 (1) 270 V (2) 276V (3) 272V (4) 272V (5) 270V (6) 270 V (7) 270 V



4	DC TO AC Power Transistor (D to S) or (C to E) Peak Voltage	Q 1 Rated : 650V/ 75 A	I/P: high line O/P:V(max)/Freq 60HZ VDS: O/P: (1)Full Load Turn On (2) Output Short (3)O.L.P(3000W) Turn On (4) NO LOAD Turn On (5) Saving mode (6) bat=OVP full load (7) bat=UVP full load Ta:25°C	Q1 (1) 294V (2) 359V (3) 300V (4) 284V (5) 290V (6) 292 V (7)294 V
5	AUX PWM MOS	Q201 Rated : 65A/ 200 V Q501 Rated : 65 A/ 200 V	I/P: high line O/P:V(max) /Freq 60HZ O/P: (1)Full Load Turn On (2) Output Short (3)O.L.P(3000W) Turn On (4) NO LOAD Turn On (5) Saving mode (6) bat=OVP full load (7) bat=UVP full load Ta:25°C	Q201 (1) 183V (2) 183V (3) 183V (4) 183V (5) 183V (6) 183V (7) 147V Q501 (1) 151V (2) 153V (3) 153V (4) 149V (5) 153V (6) 155V (7) 105.3V
6	Control IC Voltage Test	MCU IC U301 Rated 2.0 V~ 3.6 V AUX IC U201 Rated 8.2V~36V CHARGE IC U501 Rated 8.2V~36V Gate Driver IC U81 Rated -0.3V~20V	I/P: high line O/P:V(max) /Freq 60HZ O/P: (1)Full Load Turn On (2) Output Short (3)O.L.P(3000W) Turn On (4) NO LOAD Turn On (5) Saving mode (6) bat=OVP full load (7) bat=UVP full load Ta:25°C	U301 (1)3.294 V (2)3.296V (3)3.295 V (4) 3.294V (5) 3.295V (6) 3.294V (7)3.294V U501 (1) 13.06 V (2) 13.14V (3) 12.66V (4) 12.66V (5) 12.66V (6) 13.06V (7) 12.50V U201 (1)12.10 V (2)12.10V (3)12.10 V (4) 12.10V (5) 12.10V (6) 12.10V (7)11.94V U81 (1) 5.04V (2) 5.04V (3) 5.04V (4) 5.04V (5) 5.04V (6) 5.04V (7)5.04V

SAFETY & EMC TEST

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	BAT I/P-AC O/P: 3 KVAC/min BAT I/P-AC I/P: 3 KVAC/min AC O/P-FG: 1.5 KVAC/min	BAT I/P-AC O/P 3.6 KVAC/min BAT I/P-AC I/P: 3.6 KVAC/min AC O/P-FG:1.8 KVAC/min Ta:25°C	BAT I/P-AC O/P: 8.67 mA BAT I/P-AC I/P: 8.76 mA AC O/P-FG: 5.94 mA NO DAMAGE



E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	CONDUCTION	FCC (expect for Type-UN) CLASS A	I/P : 48VDC/120VAC O/P : FULL/50% LOAD Ta : 25°C	CLASS A
2	RADIATION	FCC (expect for Type-UN) CLASS A	I/P:48VDC/120VAC O/P: :FULL/50% LOAD Ta:25°C	CLASS A
3	Test by certified Lab & Test Report Prepare Any contradictions of the test results, please refer to the latest EMC test report			

Reliability Test

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	TEMPERATURE RISE TEST	MODEL : NTU-1700-124 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 25VDC O/P : FULL LOAD Ta= 25.5 °C 2. HIGH AMBIENT BURN-IN : 2 HRS I/P : 25VDC O/P : FULL LOAD Ta= 36.5 °C		
			ROOM AMBIENT Ta=25.5°C	HIGH AMBIENT Ta=36.5°C
			55.7°C	64.9°C
			48.0°C	59.9°C
			53.4°C	63.1°C
			57.2°C	68.8°C
			54.1°C	63.5°C
			69.1°C	78.7°C
			56.1°C	67.6°C
			45.6°C	57.7°C
			40.0°C	51.7°C
			44.5°C	55.7°C
			51.5°C	61.6°C
			54.2°C	64.0°C
			53.0°C	64.9°C



		NO	Position	ROOM AMBIENT Ta=25.5°C	HIGH AMBIENT Ta=36.5°C
		14	Q101	54.2°C	64.0°C
		15	U132	53.0°C	64.9°C
		16	U301	43.4°C	54.1°C
		17	U361	42.7°C	54.6°C
		18	Q201	63.4°C	76.4°C
		19	T202	56.5°C	67.8°C
		20	R223	62.3°C	74.2°C
		21	T201	47.8°C	59.5°C
		22	D261	54.5°C	66.1°C
		23	TSW3	61.5°C	74.2°C
		24	Q4	86.2°C	86.2°C
		25	C161	47.2°C	57.8°C
		26	ZNR1	30.4°C	42.4°C
		27	C1	38.7°C	49.8°C
		28	LF1	62.9°C	72.2°C
		29	C9	40.2°C	51.9°C
		30	RY2	38.0°C	50.3°C
		31	D154	54.7°C	65.3°C
		32	D156	57.8°C	69.2°C
		33	CC54	32.8°C	44.8°C
		34	TSW2	49.8°C	60.5°C
		35	L11	51.0°C	61.5°C
		36	C50	28.7°C	41.9°C
		37	LF2	28.3°C	41.5°C
		38	Q1	101.4°C	83.3°C
		39	R25	33.4°C	62.4°C
		40	U81	39.6°C	50.1°C
		41	R131	66.9°C	64.9°C
		42	U501	45.6°C	56.3°C
		43	U201	58.5°C	71.5°C
		44	R213	65.1°C	76.7°C
		45	R14	78.9°C	74.3°C
		46	RTH6	52.1°C	62.7°C
		47	Q108	52.1°C	61.9°C
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 25VDC O/P : 100%LOAD Ta= -30 °C	TEST : OK	
3	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 35 °C NO DAMAGE	I/P : 32.5VDC O/P : FULL LOAD Ta= 35.3 °C HUMIDITY= 95 %R.H	TEST : OK	



4	STORAGE TEMPERATURE TEST	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 : 5 CYCLE 5. Input/Output condition : STATIC	TEST : OK
5	THERMAL SHOCK TEST	1. Thermal shock Temperature : -30°C~ +40°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:24V/ FULL LOAD AC ON 3sec/AC OFF 1sec TEST 1cycle:24V/ FULL LOAD Burn In Test	TEST : OK
6	VIBRATION TEST	1 Carton & 1 Set (1) Waveform : Sine Wave (2) Frequency : 10~500Hz (3) Sweep Time : 10min/sweep cycle (4) Acceleration : 4G (5) Test Time : 60min in each axis (X.Y.Z) (6) Ta : 25°C	TEST : OK
7	CAPACITOR LIFE CYCLE	SUPPOSE C107 IS THE MOST CRITICAL COMPONENT (1) I/P : 25VDC O/P : FULL LOAD Ta= 25 °C LIFE TIME (2) I/P : 25VDC O/P : FULL LOAD Ta= 35 °C LIFE TIME	(1) 460961.4HRS (2) 261107.9HRS
8	MTBF	Conducted by Parts Stress Analysis Prediction 421.9K hrs min. Telcordia TR/SR-332 (Bellcore) ; 45.3K hrs min. MIL-HDBK-217F (25°C)	
9	Ongoing Reliability Test	I/P : 25VDC O/P : 80% LOAD TA=50°C Demonstration Mean Time Between Failure : 30,000 hours	

TEST RESULT	TESTER	REVIEW	APPROVAL
PASS	Liutt		Wangdz

2020.10.1 TAG-QA-009