



Test Report: UHP-500-55

500W Slim Type with PFC Switching Power Supply

■ DESIGN VERIFY TEST

Output Function Test

Input Function Test

Protection 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	45V~58V	I/P: 230VAC/115VAC O/P: NO LOAD Ta: 25°C	37.10V~59.07V/230VAC 37.07V~59.08V/115VAC
2	OUTPUT VOLTAGE TOLERANCE	1%~1%	I/P: 90VAC /264VAC O/P: FULL/ NO LOAD Ta: 25°C	0.22% ~ 0.38%
3	LINE REGULATION	-0.3%~0.3%	I/P: 100VAC ~ 264VAC O/P: FULL LOAD Ta: 25°C	0% ~ 0.02%
4	LOAD REGULATION	-0.5%~0.5%	I/P: 230VAC O/P: FULL ~NO LOAD Ta: 25°C	-0.04%~0.02%
5	OVER/UNDERSHOOT TEST	<±5 %	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	1.8%
6	RIPPLE & NOISE (Max)	500mVp-p	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	226mVp-p /CCH 100%load
<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/1000ms	I/P: 230 VAC I/P: 115 VAC O/P: FULL LOAD Ta: 25°C	230VAC/352ms 115VAC/394 ms
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>INPUT=230VAC/50HZ @ FULL LOAD</p> <p>CH1: Output Voltage CH2: AC Input Voltage</p> </div> <div style="text-align: center;"> <p>INPUT=115VAC/60HZ @ FULL LOAD</p> <p>CH1: Output Voltage CH2: AC Input Voltage</p> </div> </div>				
8	RISE TIME (Max)	230VAC/ 50ms 115VAC/ 50ms	I/P: 230 VAC I/P: 115 VAC O/P: FULL LOAD Ta: 25°C	230VAC/8.6ms 115VAC/9.2ms



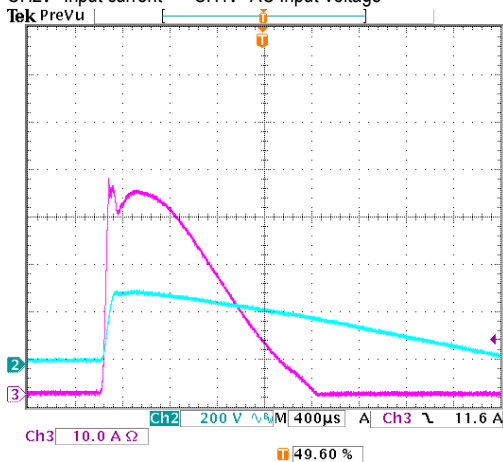
	<p>INPUT=230VAC/50HZ @ FULL LOAD CH1: Output Voltage</p> <p>Δ: 400mV @: 31.8 V Δ: 8.60ms @: 0.00 s</p> <p>Ch1 10.0 V M 10.0ms A Ch1 5.60 V</p>	<p>INPUT=115VAC/60HZ @ FULL LOAD CH1: Output Voltage</p> <p>Δ: 42.8 V @: 5.40 V Δ: 9.20ms @: 0.00 s</p> <p>Ch1 10.0 V M 10.0ms A Ch1 5.60 V</p>	
<p>9 HOLD UP TIME(Typ)</p>	<p>230VAC/ 12ms 115VAC/ 12ms</p>	<p>I/P: 230 VAC I/P: 115 VAC O/P: FULL LOAD Ta: 25°C</p>	<p>230VAC/16.8ms 115VAC/17.6ms</p>
	<p>INPUT=230VAC/50HZ @ FULL LOAD CH1: Output Voltage CH2: AC Input Voltage</p> <p>Δ: 30.0 V @: 140 V Δ: 16.8ms @: -27.6ms</p> <p>Ch1 10.0 V Ch2 250 V M 20.0ms A Ch1 5.60 V</p>	<p>INPUT=115VAC/60HZ @ FULL LOAD CH1: Output Voltage CH2: AC Input Voltage</p> <p>Δ: 22.0 V @: -12.0 V Δ: 17.6ms @: -28.0ms</p> <p>Ch1 10.0 V Ch2 100 V M 20.0ms A Ch1 5.60 V</p>	
<p>10 DYNAMIC LOAD</p>	<p>5500mVp-p</p>	<p>I/P: 230VAC O/P: (1)FULL/50% LOAD 50%DUTY / 120HZ (2)FULL/50% LOAD 50%DUTY / 1KHZ Ta: 25°C</p>	<p>(1) 1700mVp-p (2) 576mVp-p</p>
<p>FULL /50% LOAD 50%DUTY / 120HZ</p> <p>500mV 4.00ms 250k/s 10k points 550mV</p> <p>Peak-Peak 1.70 V</p>		<p>FULL /50% LOAD 50%DUTY / 1KHZ</p> <p>200mV 1.00ms 1.00MS/s 10k points 296mV</p> <p>Peak-Peak 576mV</p>	

INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	90VAC~264VAC	I/P: TESTING O/P: FULL LOAD Ta: 25°C	87 V~ 267 V
			I/P: LOW-LINE-3V=87 V HIGH-LINE+15%=300 V O/P: FULL/NO LOAD 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: 90 VAC ~264 VAC O/P: FULL~NO LOAD Ta: 25°C	TEST: OK
3	Withstand 300VAC Surge Test	300VAC input for 5 seconds No damage	I/P: 300VAC O/P: FULL LOAD Ta: 25°C	OK
4	AC CURRENT	4.85A/115VAC 2.6A/230VAC	I/P: 115 VAC I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	I = 4.45A/ 115VAC I = 2.27A/ 230VAC
5	LEAKAGE CURRENT	< 0.75mA / 240VAC	I/P: 264 VAC O/P: NO LOAD Ta: 25°C	L-FG: 363.2 uA N-FG: 361.9 uA
6	NO LOAD CONSUMPTION	---	I/P: 115VAC I/P: 230VAC O/P: NO LOAD Ta: 25°C	1.61W/115VAC 1.44 W/230VAC
7	INRUSH CURRENT(Typ)	230V/ 60A 115V/ 30A Twidth = us measured at 50% Ipeak COLD START	I/P: 230 VAC/115VAC O/P: FULL LOAD Ta: 25°C	I = 45.6A/ 230VAC I = 24.6A/ 115VAC

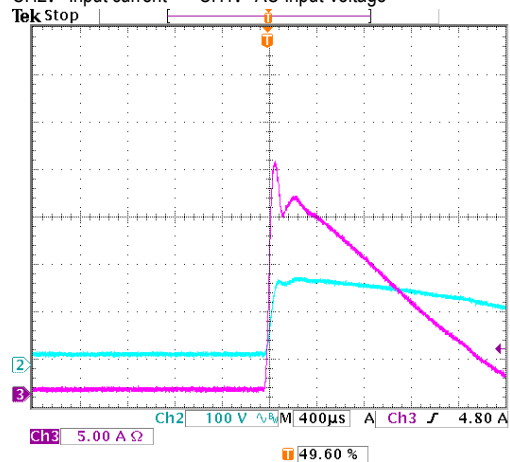
INPUT=230VAC/50HZ @ FULL LOAD

CH2: Input current CH1: AC Input Voltage



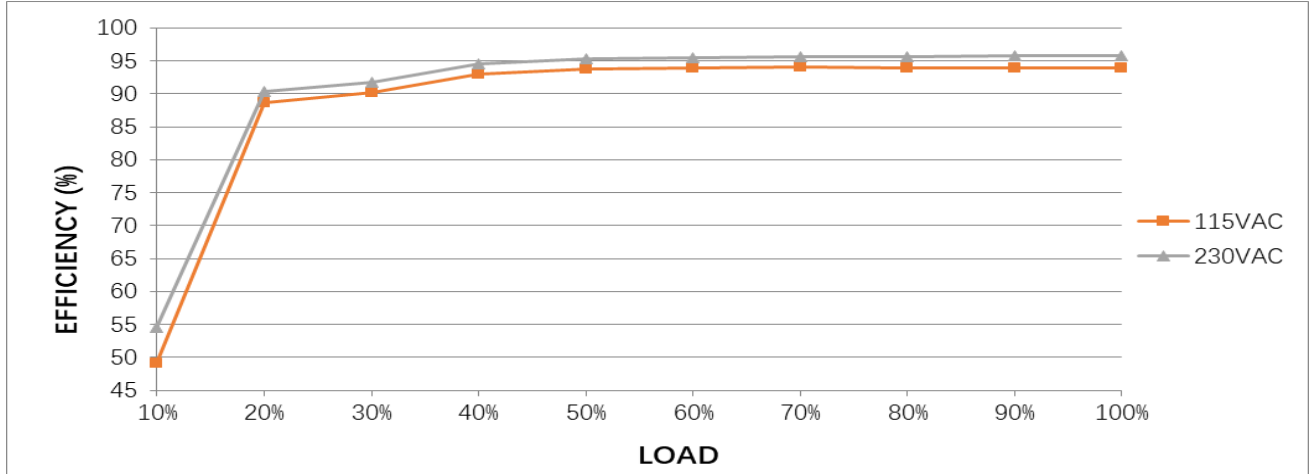
INPUT=115VAC/60HZ @ FULL LOAD

CH2: Input current CH1: AC Input Voltage



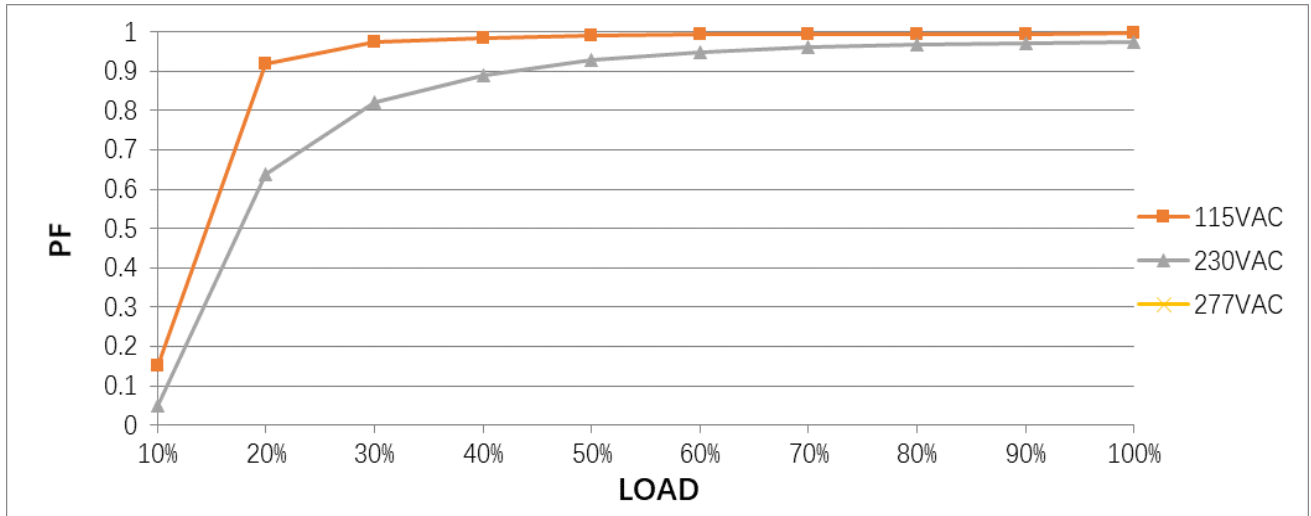
8	EFFICIENCY(Typ)	95%	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	95.73%
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EFFICIENCY vs LOAD



9	POWER FACTOR	0.98/ 115VAC 0.95/ 230VAC	I/P: 115 VAC I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	PF=0.996/ 115VAC PF=0.974/ 230VAC
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P.F vs LOAD



PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER CURRENT PROTECTION	110%~140%	I/P: 110VAC I/P: 230VAC I/P: 264VAC O/P: TESTING Ta: 25°C	123.4%/ 110VAC 123.5%/ 230VAC 124.7%/ 264VAC ■ Hiccup mode, recovers automatically after fault condition is removed
2	OVER VOLTAGE PROTECTION	60V~69V	I/P: 90VAC I/P: 230VAC I/P: 264VAC O/P: NO LOAD Ta: 25°C	63.85V/ 90VAC 63.63V/ 230VAC 63.38V/ 264VAC ■ Shut down o/p voltage, re-power on to recover



3	OVER TEMPERATURE PROTECTION	NO DAMAGE	I/P: 100VAC I/P: 230VAC I/P: 264VAC O/P: FULL LOAD	O.T.P. Active ■ Shut down o/p voltage, recovers automatically after temperature goes down
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CONTROL FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT
1	REDUNDANT CONTROL	For parallel connection protection:For parallel applications,when one PSU can not work,the another one will be automatically enabled.This can preven the system crash,and provide the reliability of system	I/P: 90VAC/230VAC/264VAC O/P: NO LOAD /FULL LOAD Ta: 25°C	TEST: OK
2	DCOK CONTACT RATINGS	30VDC/1A RESISTIVE LOAD	I/P:230VAC O/P:FULL 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	Q11 Rated 22A/600V	I/P:High-Line +3V =267V AC ON/OFF 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 FULL Load/ Min. Load 50%Duty/120Hz (7)0%→400% Load. I/P:Low-Line -3V = 87V 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 FULL Load/ Min. Load 50%Duty/120Hz (7)0%→400% Load.	VDS: (1) 486V (2) 491V (3) 495V (4) 509V (5) 473V (6) 477V (7) 477V VDS: (1) 455V (2) 477V (3) 450V (4) 437V (5) 455V (6) 455V (7) 464V
3	Diode Peak Voltage	Q100 Rated 35.3A/200V	I/P:High-Line +3V =267 V AC ON/OFF O/P: (1)Full Load (2)Output Short (3)Dynamic Load Full Load/ Min. Load 90%Duty/1KHz	Q100: Q103: VDS: VDS: (1) 135V (1) 138V (2) 8V (2) 57V (3) 142V (3) 137V

		Q103 Rated 35.3A/200V	(4)Dynamic Load Full Load/ Min. Load 90%Duty/3KHz (5)Dynamic Load Full Load/ Min. Load 90%Duty/5KHz (6)Dynamic Load FULL Load/ Min. Load 50%Duty/120Hz (7)0%→400% Load. (8).NO LOAD	(4) 139V (5) 130V (6) 135V (7) 82V (8) 138V	(4) 138V (5) 139V (6) 142V (7) 89V (8) 142V
4	P.F.C Transistor (D to S) or (C to E) Peak Voltage	Q2 Rated 22A/600V	I/P:High-Line +3V =267 V AC ON/OFF 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 FULL Load/ Min. Load 50%Duty/120Hz (7)0%→400% Load. I/P:Low-Line -3V = 87V AC ON/OFF 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 FULL Load/ Min. Load 50%Duty/120Hz (7)0%→400% Load. Ta:25°C	VDS: (1) 646V (2) 427V (3) 655V (4) 641V (5) 655V (6) 646V (7) 627V VDS: (1) 581V (2) 501V (3) 576V (4) 571V (5) 571V (6) 562V (7) 581V	
5	Input Capacitor Voltage	C5 Rated: : 270 μ / 420 V	I/P:High-Line +3V =267V O/P: (1)Full Load (2) No Load (3)Full Load /No Load Change (4)Full load continue	(1) 423V (2) 406V (3) 415V (4) 406V	
6	Control IC Voltage Test	PWM IC U1Rated 11 V~ 20 V O/P IC U100Rated 8 V ~24V	I/P:High-Line +3V =267 V AC ON/OFF O/P:(1)FULL LOAD (2) Output Short (3)O.L.P (4)O.V.P. (5)NO LOAD VR.LOW LINE	U1 (1) 13.7V (2) 14.3V (3) 14.3V (4) 12.3V (5) 11.9V	U100 11.43V 3.95V 11.43V 11.43V 8.21V1
7	VCC Diode Peak Voltage	D30 Rated: 1.1A/200V D200 Rated: 1.1A/200V	I/P: High-Line +3V = 267VAC O/P: (1) FULL Load (2) Output Short (3) NO Load (4) Dynamic Load Full Load/ Min. Load 90%Duty/1KHz	D30 (1) 114V (2) 118V (3) 116V (4) 114.3V	D200 29.5V 20.7V 27.1V 28.7V

SAFETY & E.M.C. TEST
SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-FG: 2.0 KVAC/min I/P-O/P: 3.75 KVAC/min O/P-FG: 1.25 KVAC/min EN 60950-1	I/P-FG: 2.4 KVAC/min I/P-O/P: 4.125 KVAC/min O/P-FG: 1.5 KVAC/min Ta:25°C	I/P-FG: 3.725 mA I/P-O/P: 3.5344mA O/P-FG: 3.654mA
2	ISOLATION RESISTANCE	I/P-FG: 500VDC>100MΩ I/P-O/P:500VDC>100MΩ O/P-FG:500VDC>100MΩ	I/P-FG: 500 VDC I/P-O/P: 500 VDC O/P-FG: 500 VDC Ta:25°C	I/P-FG: 9999MΩ I/P-O/P:9862MΩ O/P-FG: 9999 MΩ NO DAMAGE
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40A / 2min Ta:25°C	11 mΩ

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	HARMONIC	EN61000-3-2	I/P: 230VAC/50HZ O/P: FULL/75% LOAD Ta: 25°C	PASS
2	CONDUCTION	EN55015	I/P: 230 VAC (50HZ) O/P: FULL LOAD Ta: 25°C	PASS Test by certified Lab
3	RADIATION	EN55015	I/P: 230 VAC (50HZ) O/P: FULL LOAD Ta: 25°C	PASS Test by certified Lab
4	E.S.D	EN61000-4-2 HEAVY INDUSTRY AIR: 8KV Contact: 4KV	I/P: 230 VAC/50HZ O/P: FULL LOAD Ta: 25°C	CRITERIA
5	E.F.T	EN61000-4-4 HEAVY INDUSTRY INPUT: 1KV	I/P: 230VAC/50HZ O/P: FULL LOAD Ta: 25°C	CRITERIA
6	SURGE	EN61000-4-5 HEAVY INDUSTRY L-N: 2KV L,N-PE: 4KV	I/P: 230VAC/50HZ O/P: FULL LOAD L-N: 2KV L,N-PE: 4KV Ta: 25°C	CRITERIA
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: UHP-500-55 1. ROOM AMBIENT BURN-IN: 2HRS I/P: 230VAC O/P: FULL LOAD Ta=27.7 °C 2. HIGH AMBIENT BURN-IN: 2HRS I/P: 230VAC O/P: FULL LOAD Ta=53.3 °C																																																																																																														
		<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta=27.7 °C</th> <th>HIGH AMBIENT Ta=53.3 °C</th> </tr> </thead> <tbody> <tr><td>1</td><td>ZNR1</td><td>49.0°C</td><td>74.0°C</td></tr> <tr><td>2</td><td>LF3</td><td>54.5°C</td><td>79.1°C</td></tr> <tr><td>3</td><td>BD1</td><td>62.0°C</td><td>86.0°C</td></tr> <tr><td>4</td><td>Q1</td><td>56.1°C</td><td>81.6°C</td></tr> <tr><td>5</td><td>D8</td><td>56.2°C</td><td>82.6°C</td></tr> <tr><td>6</td><td>D9</td><td>57.4°C</td><td>83.9°C</td></tr> <tr><td>7</td><td>L2</td><td>61.6°C</td><td>87.4°C</td></tr> <tr><td>8</td><td>Q2</td><td>57.5°C</td><td>83.2°C</td></tr> <tr><td>9</td><td>RTH1</td><td>60.0°C</td><td>85.2°C</td></tr> <tr><td>10</td><td>C5</td><td>54.3°C</td><td>78.3°C</td></tr> <tr><td>11</td><td>U1</td><td>50.6°C</td><td>75.5°C</td></tr> <tr><td>12</td><td>U2</td><td>54.8°C</td><td>79.7°C</td></tr> <tr><td>13</td><td>D30</td><td>58.2°C</td><td>83.6°C</td></tr> <tr><td>14</td><td>Q10</td><td>64.7°C</td><td>91.3°C</td></tr> <tr><td>15</td><td>Q11</td><td>63.0°C</td><td>89.1°C</td></tr> <tr><td>16</td><td>C93</td><td>60.7°C</td><td>86.3°C</td></tr> <tr><td>17</td><td>C36</td><td>57.0°C</td><td>82.7°C</td></tr> <tr><td>18</td><td>T1</td><td>71.3°C</td><td>96.8°C</td></tr> <tr><td>19</td><td>Q101</td><td>54.6°C</td><td>81.2°C</td></tr> <tr><td>20</td><td>Q103</td><td>49.7°C</td><td>75.7°C</td></tr> <tr><td>21</td><td>Q200</td><td>47.0°C</td><td>73.1°C</td></tr> <tr><td>22</td><td>U100</td><td>46.3°C</td><td>71.6°C</td></tr> <tr><td>23</td><td>C115</td><td>45.5°C</td><td>71.2°C</td></tr> <tr><td>24</td><td>C119</td><td>46.7°C</td><td>72.4°C</td></tr> <tr><td>25</td><td>TSW1</td><td>58.8°C</td><td>84.2°C</td></tr> <tr><td>26</td><td>TC</td><td>46.1°C</td><td>71.3°C</td></tr> </tbody> </table>	NO	Position	ROOM AMBIENT Ta=27.7 °C	HIGH AMBIENT Ta=53.3 °C	1	ZNR1	49.0°C	74.0°C	2	LF3	54.5°C	79.1°C	3	BD1	62.0°C	86.0°C	4	Q1	56.1°C	81.6°C	5	D8	56.2°C	82.6°C	6	D9	57.4°C	83.9°C	7	L2	61.6°C	87.4°C	8	Q2	57.5°C	83.2°C	9	RTH1	60.0°C	85.2°C	10	C5	54.3°C	78.3°C	11	U1	50.6°C	75.5°C	12	U2	54.8°C	79.7°C	13	D30	58.2°C	83.6°C	14	Q10	64.7°C	91.3°C	15	Q11	63.0°C	89.1°C	16	C93	60.7°C	86.3°C	17	C36	57.0°C	82.7°C	18	T1	71.3°C	96.8°C	19	Q101	54.6°C	81.2°C	20	Q103	49.7°C	75.7°C	21	Q200	47.0°C	73.1°C	22	U100	46.3°C	71.6°C	23	C115	45.5°C	71.2°C	24	C119	46.7°C	72.4°C	25	TSW1	58.8°C	84.2°C	26	TC	46.1°C	71.3°C		
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2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)	I/P: 230 VAC O/P: 116%LOAD Ta: 25°C	TEST: OK																																																																																																												
3	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P: 264VAC/110VAC 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	± 0.0055%/°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, 5G 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: 6G (5) Test Time: 180min in each axis (X.Y.Z) (6) Ta: 25°C
9	CAPACITOR LIFE CYCLE	UHP-500-55: SUPPOSE C119 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) 941061HRS (2) 165208HRS (3) 225841HRS (4) 325121HRS
10	MTBF	Conducted by Parts Stress Analysis Prediction 1264.1K hrs min. Telcordia SR-332 (Bellcore) ; 167.6K 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	WUWQ/HUANGMK	WENF	LIUWY

2018.4.30 GP-A50-F010