



# Test Report: OWA-200E-54

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200W Single Output Moistureproof Adaptor

## ■ 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

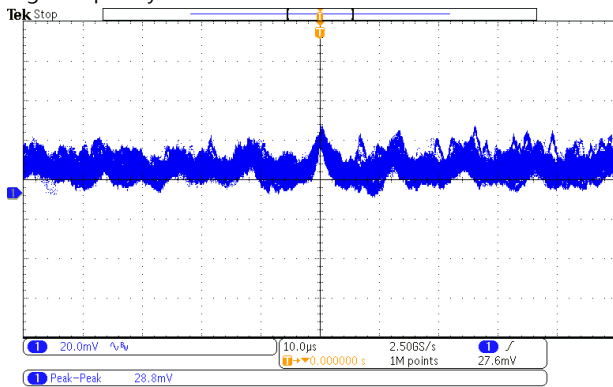
ENVIRONMENT TEST

## DESIGN VERIFY TEST

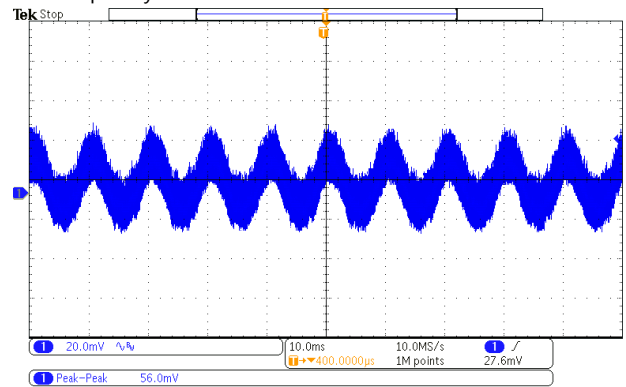
### OUTPUT FUNCTION TEST

N O	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT VOLTAGE TOLERANCE	V1: -3% ~ 3% (Max)	I/P:180VAC /264AC O/P:FULL~MIN LOAD Ta:25°C	V1: 0.92%~ 1.1%
2	LINE REGULATION	V1: -0.5% ~0.5% (Max)	I/P:180VAC~264AC O/P:FULL LOAD Ta:25°C	V1: 0%~ 0%
3	LOAD REGULATION	V1: -3% ~ 3% (Max)	I/P: 230 VAC O/P:FULL ~MIN LOAD Ta:25°C	V1: -0.16%~0.16 %
4	OVER/UNDERSHOOT TEST	< +5%	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	TEST: 3.75%
5	RIPPLE & NOISE	V1: 350mVp-p (Max)	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	V1: 56mVp-p / 100% load

high frequency :



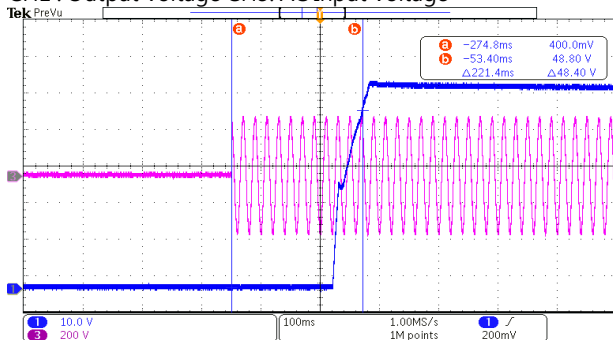
low frequency :



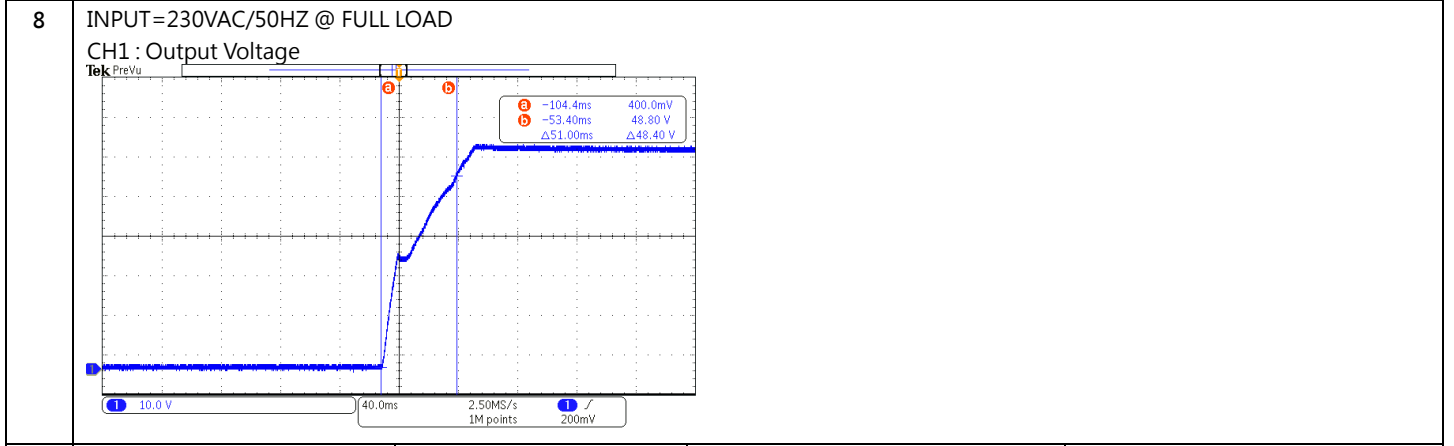
6	SET UP TIME (Max)	230VAC/500ms	I/P: 230 VAC O/P:FULL LOAD Ta:25°C 使用 LEDH MODE TEST	230VAC/ 221.4 ms
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INPUT=230VAC/50HZ @ FULL LOAD

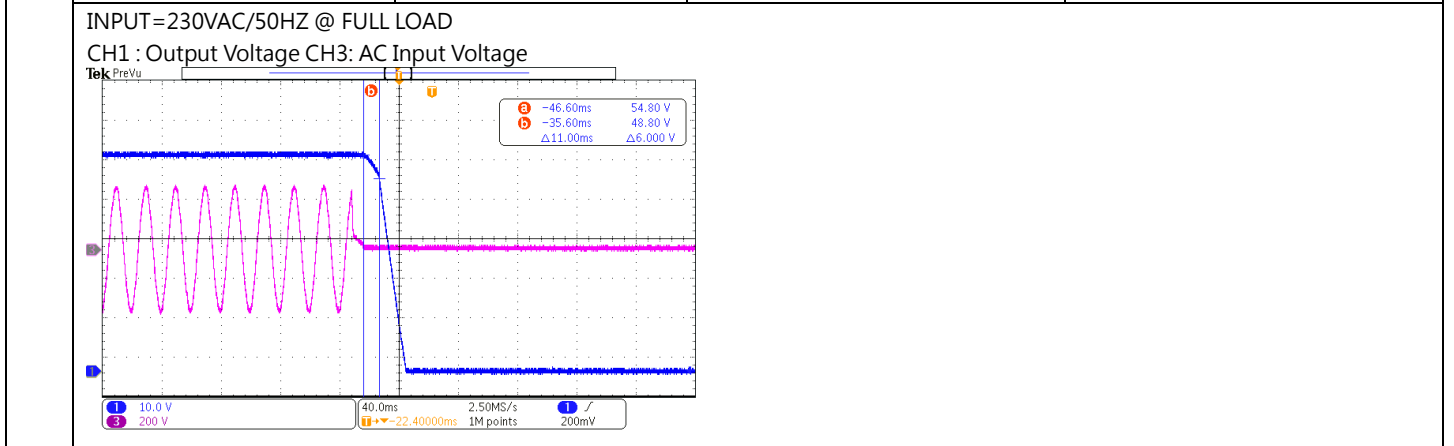
CH1 : Output Voltage CH3: AC Input Voltage



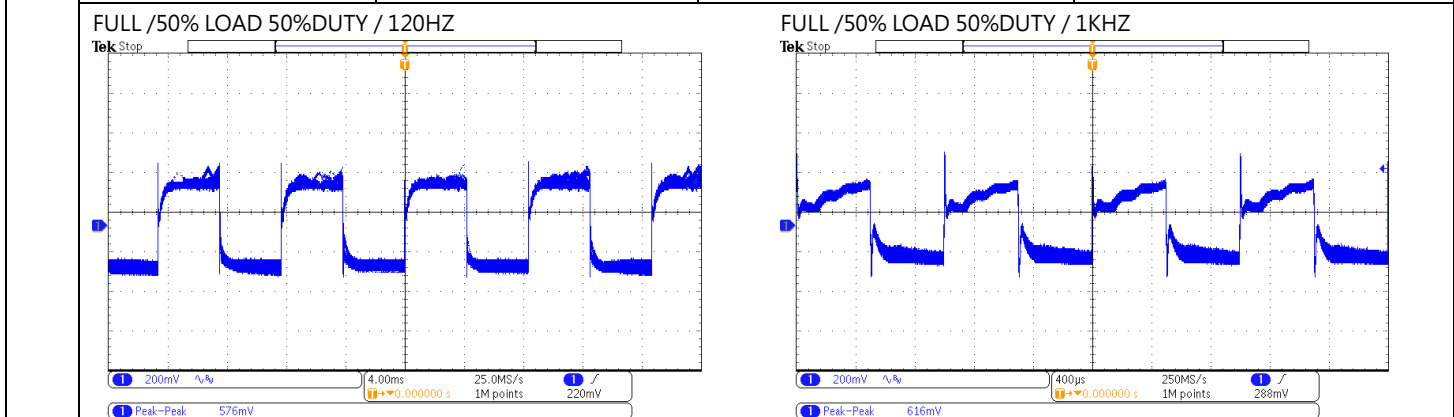
7	RISE TIME (Max)	230VAC/80ms	I/P: 230 VAC O/P:FULL LOAD Ta:25°C 使用 LEDH MODE TEST	230VAC/ 51 ms
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9	HOLD UP TIME (Typ)	230VAC/10ms	I/P: 230 VAC O/P:FULL LOAD Ta:25°C 使用 LEDH MODE TEST	230VAC/11 ms
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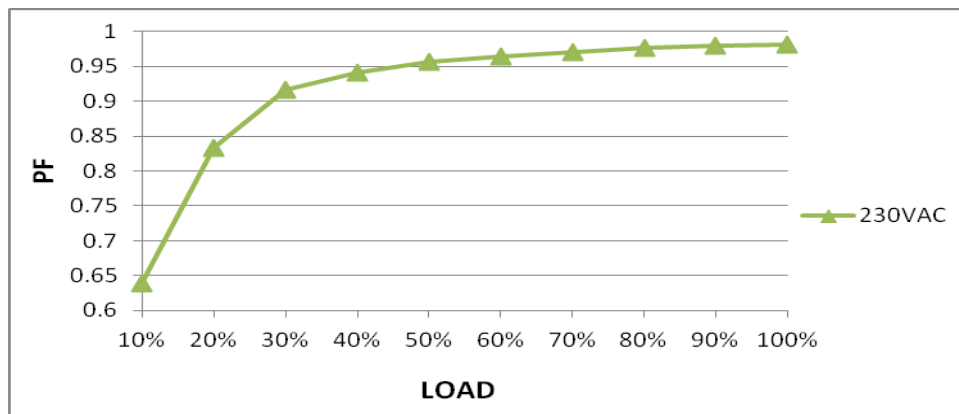
10	DYNAMIC LOAD	V1: 5400mVp-p	I/P: 230VAC O/P: (1)FULL /50% LOAD 50%DUTY / 120HZ (2)FULL /50% LOAD 50%DUTY / 1KHZ Ta:25°C	576mVp-p FULL /50% LOAD 50%DUTY / 120HZ 616mVp-p FULL /50% LOAD 50%DUTY / 1KHZ
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### INPUT FUNCTION TEST

N O	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	180VAC~264VAC 254VDC~ 370VDC	(1) I/P:TESTING O/P:FULL LOAD (2) I/P:DC TESTING(L:+ N:-) O/P: FULL / 50% LOAD (3) I/P:DC TESTING(L:- N:+) O/P: FULL / 50% LOAD Ta:25°C	(1) 177V~264VAC  (2) 242Vdc~370Vdc/FULL LOAD  (3) 242Vdc~370Vdc/FULL LOAD
			I/P: LOW-LINE-3V=177 V HIGH-LINE+15%=300 V 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: 180 VAC ~264VAC O/P:FULL~MIN LOAD Ta:25°C	OK
3	INPUT CURRENT (TYP)	230 VAC/1.1A	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	I =0.93 A/ 230VAC
	NO LOAD POWER CONSUMPTION	<0.15W	I/P: 230 VAC O/P:NO LOAD Ta:25°C	0.1318W/230V
4	POWER FACTOR(TYP)	0.96/230 VAC FULL LOAD	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	PF= 0.982 /230V/100%LOAD

P.F vs LOAD



5	EFFICIENCY (TYP)	94%	I/P: 230VAC O/P: 100%Load Ta:25°C	94.71%																						
<p>EFFICIENCY vs LOAD</p> <table border="1"> <caption>Efficiency vs Load Data (Approximate)</caption> <thead> <tr> <th>LOAD (%)</th> <th>EFFICIENCY (%)</th> </tr> </thead> <tbody> <tr><td>10%</td><td>87</td></tr> <tr><td>20%</td><td>93</td></tr> <tr><td>30%</td><td>93</td></tr> <tr><td>40%</td><td>94</td></tr> <tr><td>50%</td><td>94.5</td></tr> <tr><td>60%</td><td>94.5</td></tr> <tr><td>70%</td><td>94.5</td></tr> <tr><td>80%</td><td>94.5</td></tr> <tr><td>90%</td><td>94.5</td></tr> <tr><td>100%</td><td>94.5</td></tr> </tbody> </table>					LOAD (%)	EFFICIENCY (%)	10%	87	20%	93	30%	93	40%	94	50%	94.5	60%	94.5	70%	94.5	80%	94.5	90%	94.5	100%	94.5
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100%	94.5																									
6	INRUSH CURRENT (TYP)	230 V/ 65A (twidth=550us measured at 50% Ipeak) COLD START	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	I = 49.4 A/ 230VAC T50=464us																						
<p>INPUT=230VAC/50HZ @ FULL LOAD CH2 : AC Input Voltage CH3 : Input current</p> <p>Ch3 Max 49.4 A</p> <p>Δ: 16.6 A @: 24.0 A Δ: 464 μs @: 448 μs</p> <p>Ch3 10.0 A Ω</p> <p>50.20 %</p>																										

### ROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER CURRENT PROTECTION	105 %~150%	I/P: 267VAC I/P: 230VAC I/P: 180VAC O/P:TESTING Ta:25°C	127.2%/ 267VAC 126.6%/ 230VAC 126.8%/180VAC PROTECTION TYPE : Hiccup mode, recovers automatically after fault condition is removed

2	OVER VOLTAGE PROTECTION	V1:59 V~ 70 V	I/P: 267VAC I/P: 230VAC I/P: 180VAC O/P:TESTING Ta:25°C	63.8V/230VAC 64.4V/180VAC 64.2V/267VAC PROTECTION TYPE : Shut down o/p voltage, re-power on to recover
3	OVER TEMPERATURE PROTECTION	NO DAMAGE	I/P: 267 VAC I/P: 180 VAC O/P:FULL LOAD	O.T.P. Active PROTECTION TYPE : Shut down o/p voltage, re-power on to recover
4	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 267VAC I/P: 180 VAC O/P: FULL LOAD Ta:25°C	NO DAMAGE PROTECTION TYPE : Hiccup mode, recovers automatically after fault condition is removed

### COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Transistor ( D to S) or (C to E) Peak Voltage	Q 73 Rated 11A/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.  I/P:Low-Line -3V = 177V 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	VDS: (1) 466V (2) 478V (3) 470V  (4) 466V  (5) 466V (6) 470V (7) 486V  VDS: (1) 470V (2) 482V (3) 470V  (4) 466V  (5) 470V (6) 470V (7) 474V

2	<p>P.F.C Transistor ( D to S) or (C to E) Peak Voltage</p>	<p>Q 1 Rated 26A/600V</p>	<p>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 100% Load/ Min. Load 50%Duty/120Hz (7)0%→400% Load.</p> <p>I/P:Low-Line -3V =177V 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 100% Load/ Min. Load 50%Duty/120Hz (7)0%→400% Load.</p> <p>Ta:25°C</p>	<p>VDS: (1) 501V (2) 456V (3) 499V (4) 503V (5) 508V (6) 503V (7) 462V</p> <p>VDS: (1) 501V (2) 446V (3) 503V (4) 499V (5) 503V (6) 491V (7) 468V</p>
3	<p>P.F.C DIODE</p>	<p>D5 Rated 9 A/ 600V</p>	<p>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/5KHz (4)Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz</p> <p>I/P:Low-Line -3V = 177V 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</p> <p>Ta:25°C</p>	<p>(1) 491V (2) 455V (3) 438V (4) 436V</p> <p>(1) 431V (2) 428V (3) 431V (4) 427V</p>

4	Diode Peak Voltage	<p>Q101 Rated 33 A/ 150V</p> <p>Q100 Rated 33A/ 150V</p>	<p>AC ON/OFF</p> <p>I/P:High-Line +3V =267 V</p> <p>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</p> <p>Ta:25°C</p>	<p>Q101: VDS: (1) 126V (2) 14V (3) 126V  (4) 125V (5) 125V (6) 125V (7) 12.4V (8) 123V</p> <p>Q100: VDS: (1) 122V (2) 12.4V (3) 124V (4) 123V (5) 124V (6) 122V (7) 14.8V (8) 124V</p>
5	Input Capacitor Voltage	C5 Rated: 100μ / 450V	<p>I/P:High-Line +3V =267V</p> <p>O/P: (1)Full Load input on/off (2) Min load input on /Off (3)Full Load /Min load Change (4)Full load continue</p> <p>Ta:25°C</p>	<p>(1) 435V (2) 416V (3) 431V (4) 421V</p>
6	Control IC Voltage Test	<p>U2 Rated -0.3V~20V</p> <p>U1 Rated -0.3V ~ 35 V</p>	<p>AC ON/OFF</p> <p>I/P:High-Line +3V =267 V</p> <p>O/P(1)FULL LOAD (2) Output Short (3)O.L.P (4)O.V.P. (5)NO LOAD VRmin(Low LINE)</p> <p>Ta:25°C</p>	<p>U1: (1) 16.7 (2) 16.7 (3) 17.1 (4) 15.9 (5) 16.7</p> <p>U2: (1) 16.5V (2) 16.5V (3) 16.6V (4) 16.7V (6) 15.6V</p>



## SAFETY & EMC TEST

### SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P: 4.2KVAC/min	I/P-O/P: 4. 5 KVAC/min Ta:25°C	I/P-O/P: 1.864mA NO DAMAGE
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ	I/P-O/P: 500 VDC Ta:25°C	I/P-O/P:9999MΩ NO DAMAGE
3	LEAKAGE CURRENT	0.25mA / 240VAC	I/P: 240 VAC O/P:Min LOAD Ta:25°C	L-FG: 0.037mA N-FG:0.042mA

### E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	HARMONIC	EN61000-3-2 CLASS C	I/P: 230VAC/50HZ O/P:FULL LOAD Ta:25°C	PASS
2	CONDUCTION	EN55032 CLASS B	I/P: 230 VAC (50HZ) O/P:FULL/50% LOAD Ta:25°C	PASS Test by certified Lab
3	RADIATION	EN55032 CLASS B	I/P: 230 VAC (50HZ) O/P:FULL LOAD Ta:25°C	PASS Test by certified Lab
4	E.S.D	EN61000-4-2 LIGHT INDUSTRY AIR : 8KV / Contact : 4KV	I/P: 230 VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A
5	E.F.T	EN61000-4-4 LIGHT INDUSTRY INPUT: 1KV	I/P: 230 VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A
6	SURGE	IEC61000-4-5 INDUSTRY L-N :2KV	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 : OWA-200U-54 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=27 °C 2. HIGH AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=49 °C																																																																																																																										
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24	C105	46.4°C	70.8°C																																																																																																																									
25	C106	46.6°C	71.2°C																																																																																																																									
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2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR ( MIN )	I/P : 230 VAC O/P : 126 % LOAD Ta : 25°C	TEST : OK																																																																																																																								
3	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 230VAC/180VAC 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 45 °C NO DAMAGE	I/P : 264VAC O/P : FULL LOAD Ta= 45 °C HUMIDITY= 95 %R.H	TEST : OK
5	TEMPERATURE COEFFICIENT	+ 0.03 %/(0°C~50°C)	I/P : 230 VAC O/P : FULL LOAD	+ 0.001 %/°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 : 10CYCLE 5. Input/Output condition : STATIC	
7	THERMAL SHOCK TEST	-40~45°C	1. Thermal shock Temperature : -45°C~ +50°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	SUPPOSE C105 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=45 °C LIFE TIME (3) I/P : 230VAC O/P : 75% LOAD Ta=45 °C LIFE TIME (4) I/P : 230VAC O/P : 50% LOAD Ta=45 °C LIFE TIME		(1) 240361HRS (2) 203524HRS (3) 310483HRS (4) 402278 HRS
10	MTBF	Conducted by Parts Stress Analysis Prediction 2677.8K hrs min. Telcordia SR-332 (Bellcore); 267.6K 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 : 50,000 hours		

TEST RESULT	TESTER	REVIEW	APPROVAL
PASS	WUWQ/HUANGMK	WENF	LINKX

2018.4.30

GP-A50-F010