



Test Report: WDR-480-48

480W Single Output Industrial DIN RAIL Power Supply

■ 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	VERDICT
1	RIPPLE & NOISE	V1 : 150 mVp-p (Max)	I/P : 400VAC O/P : FULL LOAD Ta : 25°C	V1 : 65 mVp-p (Max)	P
2	OUTPUT VOLTAGE ADJUST RANGE	CH1 : 48 V ~ 55 V	I/P : 400 VAC I/P : 230 VAC O/P : MIN LOAD Ta : 25°C	46.83 V ~ 56.49 V/ 400 VAC 46.82 V ~ 56.49 V/ 230 VAC	P
3	OUTPUT VOLTAGE TOLERANCE	V1 : 1 %~ -1 % (Max)	I/P : 200 VAC / 550 VAC O/P : FULL/ MIN LOAD Ta : 25°C	V1 : 0.2 %~ -0.2 %	P
4	LINE REGULATION	V1 : 0.5%~ -0.5 % (Max)	I/P : 200 VAC ~ 550 VAC O/P : FULL LOAD Ta : 25°C	V1 : 0.002 %~ -0.002 %	P
5	LOAD REGULATION	V1 : 1 %~ -1 % (Max)	I/P : 400 VAC O/P : FULL ~MIN LOAD Ta : 25°C	V1 : 0.2 %~ -0.2 %	P
6	SET UP TIME	400VAC : 800 ms (Max) 230VAC : 2000 ms(Max)	I/P : 400 VAC I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	400VAC/ 494 ms 230VAC/ 969 ms	P
7	RISE TIME	400VAC : 150 ms (Max) 230VAC : 150 ms (Max)	I/P : 400 VAC I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	400VAC/ 53 ms 230VAC/ 105 ms	P
8	HOLD UP TIME	400VAC : 18 ms (TYP) 230VAC : 16 ms (TYP)	I/P : 400 VAC I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	400VAC/ 19 ms 230VAC/ 19 ms	P
9	OVER/UNDERSHOOT TEST	< ±5%	I/P : 400 VAC O/P : FULL LOAD Ta : 25°C	TEST : 5 %	P
10	DYNAMIC LOAD	V1 : 4800 mVp-p	I/P : 400 VAC (1).O/P : FULL /Min LOAD 90%DUTY/ 1KHZ (2).O/P : FULL /Min LOAD 50%DUTY/ 120HZ Ta : 25°C	(1) 562 mVp-p (2) 1241 mVp-p	p

INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	INPUT VOLTAGE RANGE	180VAC~550 VAC	I/P : TESTING O/P : FULL LOAD Ta : 25°C I/P : LOW-LINE-3V= 177 V HIGH-LINE+15%=550V O/P : FULL/MIN LOAD ON : 30 Sec . OFF : 30 Sec 10MIN (AC POWER ON/OFF NO DAMAGE)	167 V~550V TEST : OK	P
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P : 180 VAC ~ 550 VAC O/P : FULL~MIN LOAD Ta : 25°C	TEST : OK	P
3	EFFICIENCY	93 % (TYP)	I/P : 400 VAC O/P : FULL LOAD Ta : 25°C	93.03 %	P
4	INPUT CURRENT	400V/ 1.6 A (TYP) 230V/ 4 A (TYP)	I/P : 400 VAC I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	I = 1.48 A/ 400 VAC I = 2.53 A/ 230 VAC	P
5	INRUSH CURRENT	400V/ 50 A (TYP) COLD START	I/P : 400 VAC O/P : FULL LOAD Ta : 25°C	I = 40 A/ 400 VAC	P
6	LEAKAGE CURRENT	< 3.5 mA / 530 VAC	I/P : 530 VAC O/P : Min LOAD Ta : 25°C	L-FG : 1.4 mA N-FG : 1.4 mA	P
7	POWER FACTOR	0.84 / 400VAC(TYP) 0.84 / 230 VAC(TYP)	I/P : 400 VAC I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	PF= 0.853 / 400VAC PF= 0.87 / 230 VAC	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	105 % ~ 130 %	I/P : 400 VAC I/P : 230 VAC O/P : TESTING Ta : 25°C	116 %/ 400 VAC 116 %/ 230 VAC Constant current limiting, unit will shut down after 3 sec. , auto-recovery after 1 minute if the fault condition is removed	P
2	OVER VOLTAGE PROTECTION	CH1 : 56V ~ 65 V	I/P : 400 VAC I/P : 230 VAC O/P : MIN LOAD Ta : 25°C	60.9 V/ 400 VAC 60.98 V/ 230 VAC Shut down o/p voltage, auto-recovery after 1 minute if the fault condition is removed	P
3	OVER TEMPERATURE PROTECTION	SPEC : TSW1 : 95 ± 5°C O.T.P. NO DAMAGE	I/P : 400 VAC O/P : FULL LOAD	O.T.P.Active Shut down o/p voltage , recovers automatically after temperature goes down	P
4	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P : 550 VAC O/P : FULL LOAD Ta : 25°C	NO DAMAGE Constant current limiting, unit will shut down after 3 sec. , auto-recovery after 1 minute if the fault condition is removed	P

CONTROL FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	DO OK RELAY CONTACT RAYINGS	60VDC/0.3A 、 30VDC/1A 、 30VAC/0.5A resistive load	I/P : 550 VAC O/P : FULL LOAD Ta : 25℃	OK	P

OMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	Power Transistor (D to S) or (C to E) Peak Voltage	Q 40 Rated : IRFB4229PbF 46A/250V	I/P : High-Line +3V = 553 V O/P : (1)Full Load Turn on (2) Output Short (3)Full load continue Ta : 25℃	(1) 249 V (2) 249 V (3) 243 V	P
2	Diode Peak Voltage	Q100 Rated : YA868C15RSC 30A/150V	I/P : High-Line +3V = 553 V O/P : (1)Full Load Turn on (2)Output Short (3)Full load continue Ta : 25℃	(1) 144 V (2) 108 V (3) 139 V	P
3	Input Capacitor Voltage	C 5 Rated : 390u/250V 105℃ 22*30 KMR	I/P : High-Line +3V = 553 V O/P : (1)Full Load Turn on /Off (2) Min load Turn on /Off (3)Full Load /Min load Change Ta : 25℃	(1) 205.9 V (2) 215.5 V (3) 215.5 V	P
4	Control IC Voltage Test	U2 Rated : L6599AD 8.85V~16V	I/P : High-Line +3V = 553 V O/P : (1)Full Load Turn on /Off (2) Min load Turn on /Off (3)Full Load /Min load Change Ta : 25℃	(1) 14.491 V (2) 14.192 V (3) 14.216 V	P
5	Power Transistor (D to S) or (C to E) Peak Voltage	Q901 Rated : IPW90R500C3 11A/900V	I/P : High-Line +3V = 553 V O/P : (1)Full Load Turn on (2) Output Short (3)Full load continue Ta : 25℃	(1) 900 V (2) 760 V (3) 860 V	P

■ SAFETY & E.M.C. TEST

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	WITHSTAND VOLTAGE	I/P-O/P : 3 KVAC/min I/P-FG : 2 KVAC/min O/P-FG : 0.5 KVAC/min	I/P-O/P : 3.6 KVAC/min I/P-FG : 2.4 KVAC/min O/P-FG : 0.6 KVAC/min Ta : 25°C	I/P-O/P : 9.51 mA I/P-FG : 6.97 mA O/P-FG : 10.96 mA NO DAMAGE	P
2	ISOLATION RESISTANCE	I/P-O/P : 500VDC>100MΩ I/P-FG : 500VDC>100MΩ O/P-FG : 500VDC>100MΩ	I/P-O/P : 500 VDC I/P-FG : 500 VDC O/P-FG : 500 VDC Ta : 25°C /70%RH	I/P-O/P : 30 GΩ I/P-FG : 25.8 GΩ O/P-FG : 30 GΩ NO DAMAGE	P
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40 A / 2min Ta : 25°C / 70%RH	10 mΩ	P
4	APPROVAL	TUV : Certificate NO : UL : File NO : E215312			P

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	HARMONIC	EN61000-3-2 CLASS A	I/P : 400 /240/220VAC 50HZ O/P : 100/75/50/25%LOAD Ta : 25°C	PASS	P
2	CONDUCTION	EN55022 CLASS B	I/P : 400 /230VAC (50HZ) O/P : FULL/50% LOAD Ta : 25°C	PASS Test by certified Lab	P
3	RADIATION	EN55022 CLASS B	I/P : 400 /230VAC (50HZ) O/P : FULL LOAD Ta : 25°C	PASS Test by certified Lab	P
4	E.S.D	EN61000-4-2 INDUSTRY AIR : 8KV / Contact : 4KV	I/P : 400 VAC/50HZ O/P : FULL LOAD Ta : 25°C	CRITERIA A	P
5	E.F.T	EN61000-4-4 INDUSTRY INPUT : 2KV	I/P : 400 VAC/50HZ O/P : FULL LOAD Ta : 25°C	CRITERIA A	P
6	SURGE	IEC61000-4-5 INDUSTRY L-N : 2KV L,N-PE : 4KV	I/P : 400 VAC/50HZ O/P : FULL LOAD Ta : 25°C	CRITERIA A	P
7	Test by certified Lab & Test Report Prepare				

RELIABILITY TEST

ENVIRONMENT TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT																																																																																																																											
1.	THERMO TRACER TEST (ROOM AMBIENT)	MODEL: WDR-480-24 TEST CONDITION: 100 VAC FULL LOAD ROOM AMBIENT = 25.4 °C			P																																																																																																																											
111 101- 90- 80- 70- 60- 49- 39- 29- 18- 8- 熱顯像調整 自動調整 高溫99.9°C 低溫22.1°C 座標: 185, 2 原資料溫度: 25.4°C (EO.94) 放射率: 0.94 修正後溫度: 25.4°C (EO.94) 環境溫度: 27.8°C 最高溫(H): 99.9°C 座標: 200, 173 最低溫(L): 22.1°C 座標: 292, 236 全域放射率: 0.940 日期: 2009/ 9/21 時間: 17:24:21		99210002.1RI (定點測溫)  p 1: 80.8°C 138x, 99y p 2: 59.8°C 176x, 146y p 3: 60.6°C 178x, 177y p 4: 64.9°C 105x, 70y p 5: 63.6°C 121x, 166y p 6: 80.4°C 188x, 40y p 7: 64.5°C 113x, 45y p 8: 70.8°C 125x, 84y p 9: 68.1°C 184x, 67y p10: 73.0°C 140x, 65y p11: p12: p13: p14: p15:	<table><tr><th></th><th>Position</th><th>Temp</th><th>VERDICT</th></tr><tr><td>P1</td><td>L6</td><td>80.8</td><td>PASS</td></tr><tr><td>P2</td><td>L8</td><td>59.8</td><td>PASS</td></tr><tr><td>P3</td><td>C24</td><td>60.6</td><td>PASS</td></tr><tr><td>P4</td><td>C902</td><td>64.9</td><td>PASS</td></tr><tr><td>P5</td><td>C107</td><td>63.6</td><td>PASS</td></tr><tr><td>P6</td><td>Q902</td><td>80.4</td><td>PASS</td></tr><tr><td>P7</td><td>Q40</td><td>64.5</td><td>PASS</td></tr><tr><td>P8</td><td>C51</td><td>70.8</td><td>PASS</td></tr><tr><td>P9</td><td>C6</td><td>68.1</td><td>PASS</td></tr><tr><td>P10</td><td>T1</td><td>73.0</td><td>PASS</td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>			Position	Temp	VERDICT	P1	L6	80.8	PASS	P2	L8	59.8	PASS	P3	C24	60.6	PASS	P4	C902	64.9	PASS	P5	C107	63.6	PASS	P6	Q902	80.4	PASS	P7	Q40	64.5	PASS	P8	C51	70.8	PASS	P9	C6	68.1	PASS	P10	T1	73.0	PASS																																																																																
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2	TEMPERATURE RISE TEST	MODEL : WDR-480-24 1. ROOM AMBIENT BURN-IN : 1 HRS I/P : 400VAC O/P : FULL LOAD Ta= 35.1 °C 2. HIGH AMBIENT BURN-IN : 3.5 HRS I/P : 400VAC O/P : FULL LOAD Ta= 55.1 °C			P																																																																																																																											
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3	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)	I/P : 400 VAC O/P : 112 % LOAD Ta : 25°C	TEST : OK	P
4	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 550VAC/100VAC O/P : 100 % LOAD Ta= -30 °C	TEST : OK	P
5	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 50 °C NO DAMAGE	I/P : 272 VAC O/P : FULL LOAD Ta= 50 °C HUMIDITY= 95 %R.H	TEST : OK	P
6	TEMPERATURE COEFFICIENT	± 0.03 %(0~50°C)	I/P : 400 VAC O/P : FULL LOAD	± 0.003 %(0~50°C)	P
7	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		OK	P
8.	THERMAL SHOCK TEST	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 : 10 CYCLE 5. Input/Output condition : 400VAC/Full Load AC ON/OFF TEST turn on 58sec ; turn off 2sec		OK	P
9	VIBRATION TEST	1 Carton & 1 Set (1) Waveform : Sine Wave (2) Frequency : 10~500Hz (3) Sweep Time : 12min/sweep cycle (4) Acceleration : 2G (5) Test Time : 60min in each axis (X.Y.Z) (6) Ta : 25°C		TEST : OK	P
10	CAPACITOR LIFE CYCLE	SUPPOSE C105 IS THE MOST CRITICAL COMPONENT (1) I/P : 400VAC O/P : FULL LOAD Ta= 25 °C LIFE TIME (2) I/P : 400VAC O/P : FULL LOAD Ta= 50 °C LIFE TIME (3) I/P : 400VAC O/P : 75% LOAD Ta= 50 °C LIFE TIME		(1) 207823.9 HRS (2) 35272.3 HRS (3) 76075.1 HRS	P
11	MTBF	MIL-HDBK-217F NOTICES2 PARTS COUNT TOTAL FAILURE RATE : 112.8 KHRS			P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2010/4/15	RD SAMPLE	PASS	SANFORD SU	VINCENT TSENG
2010/7/23	PRODUCT SAMPLE	PASS	SANFORD SU	VINCENT TSENG

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