



Test Report: XTR-480-24

480W AC/DC Three-Phase Input Ultra Slim Industrial DIN Rail Power

■ 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

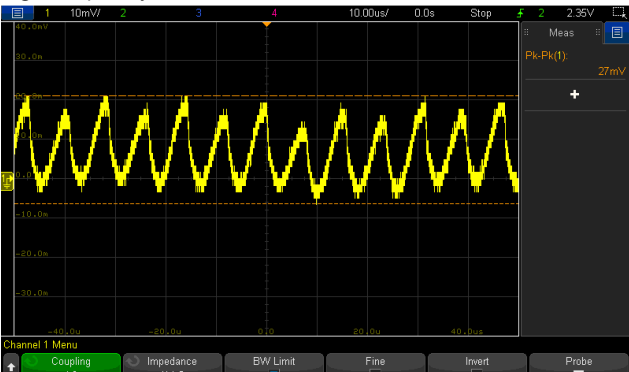
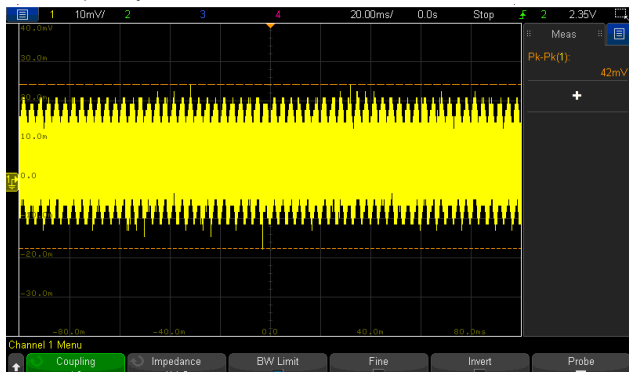
E.M.C. Test

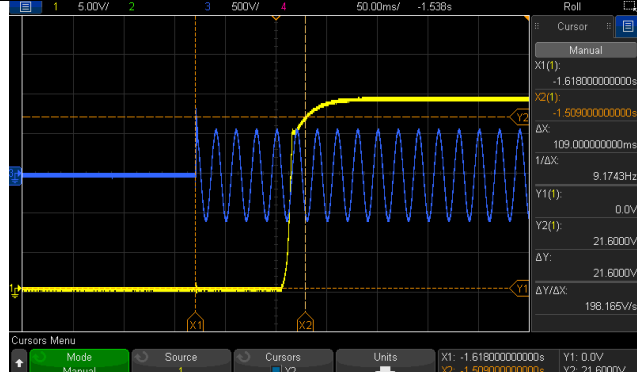
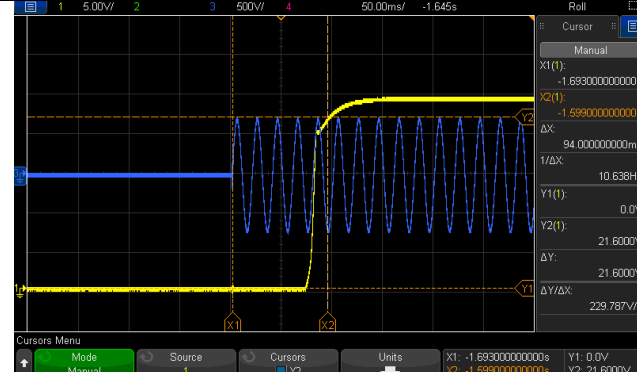
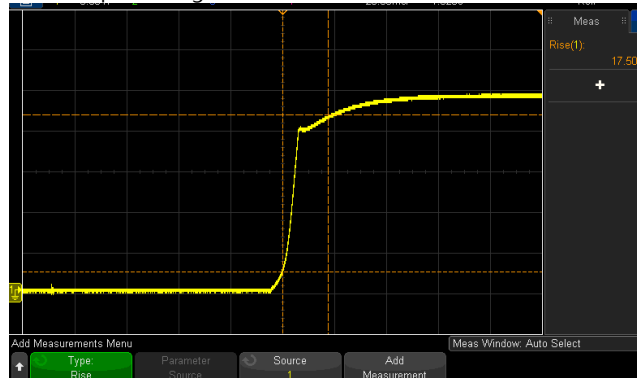
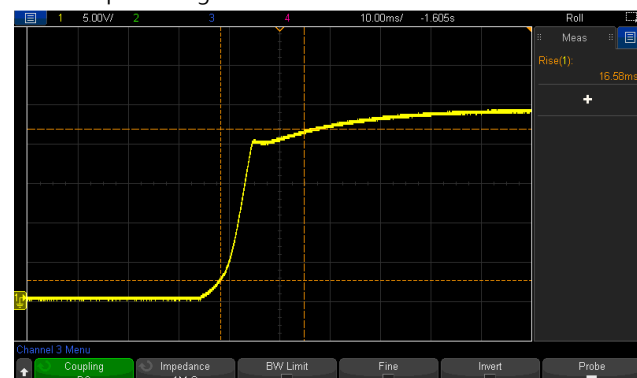
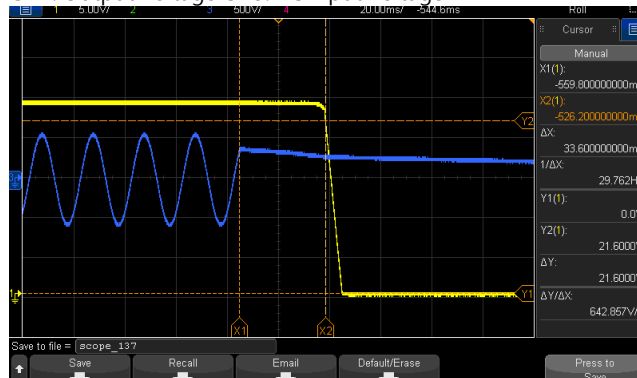
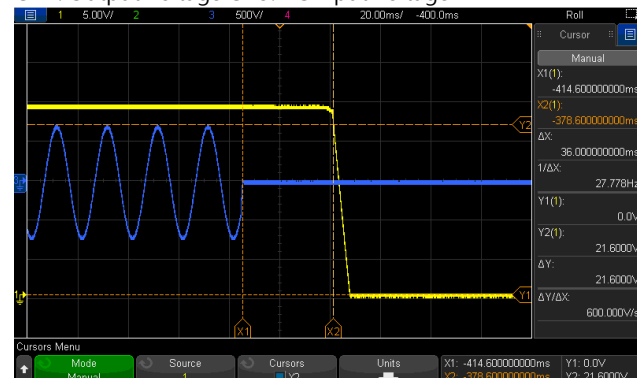
■ RELIABILITY TEST

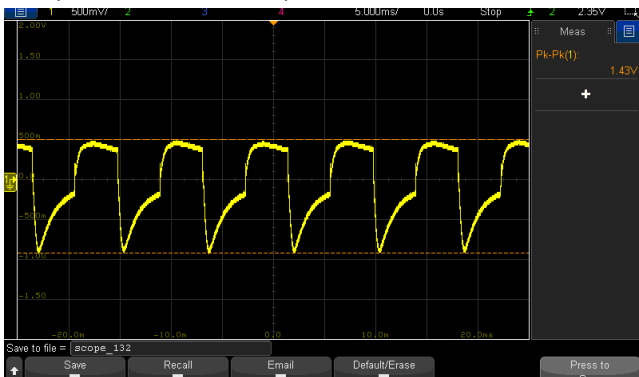
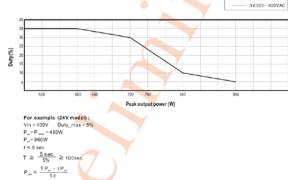
ENVIRONMENT TEST

DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT VOLTAGE ADJUST RANGE	CH1: 24V~29V	I/P : 400 VAC I/P : 500 VAC O/P : MIN LOAD Ta : 25°C	23.27V~29.68V/400VAC 23.27V~29.68V /500VAC
2	OUTPUT VOLTAGE TOLERANCE	V1: -1% ~ +1%	I/P: 320VAC ~ 600VAC O/P:FULL/ MIN. LOAD Ta:25°C	V1: -0.24% ~ 0.19%
3	LINE REGULATION	V1: -0.5% ~ +0.5%	I/P: 320VAC~ 600VAC O/P:FULL LOAD Ta:25°C	V1: -0.01% ~ 0.01%
4	LOAD REGULATION	V1: -1% ~ +1%	I/P: 400VAC O/P:FULL ~MIN LOAD Ta:25°C	V1: -0.24% ~ 0.19%
5	OVER/UNDERSHOOT TEST	<±5%	I/P: 400VAC O/P:FULL LOAD/NO LOAD Ta:25°C	-2.6% →FULL LOAD -4.2% →PEAK LOAD
6	RIPPLE & NOISE (Max)	V1: 120mVp-p	I/P:400VAC O/P: FULL LOAD Ta:25°C	27mVp-p / high frequency 42mVp-p / low frequency
high frequency :  low frequency : 				
7	SET UP TIME (Max)	400VAC/800ms 500VAC/600ms	I/P : 400 VAC I/P : 500 VAC O/P : FULL LOAD Ta : 25°C	109ms/400VAC 94ms/500VAC
INPUT=400VAC/50HZ @ FULL LOAD CH1: Output Voltage CH3: AC Input Voltage			INPUT=500VAC/60HZ @ FULL LOAD CH1: Output Voltage CH3: AC Input Voltage	

				
8	RISE TIME (Max) 400VAC/60ms 500VAC/60ms	I/P : 400 VAC I/P : 500 VAC O/P : FULL LOAD Ta : 25°C	17.50ms/400VAC 16.58ms/500VAC	
	INPUT=400VAC/50HZ @ FULL LOAD CH1: Output Voltage 		INPUT=500VAC/60HZ @ FULL LOAD CH1: Output Voltage 	
9	HOLD UP TIME (Typ.) 400VAC/20ms 500VAC/20ms	I/P : 400 VAC I/P : 500 VAC O/P : FULL LOAD Ta : 25°C	33.6ms/400VAC 36.0ms/500VAC	
	INPUT=400VAC/50HZ @ FULL LOAD CH1: Output Voltage CH3: AC Input Voltage 		INPUT=500VAC/60HZ @ FULL LOAD CH1: Output Voltage CH3: AC Input Voltage 	
10	DYNAMIC LOAD V1: 2400mVp-p	I/P: 400VAC O/P: (1) FULL / MIN LOAD 50%DUTY / 120HZ (2) FULL / MIN LOAD 50%DUTY / 1KHZ	1430mVp-p 640mVp-p	

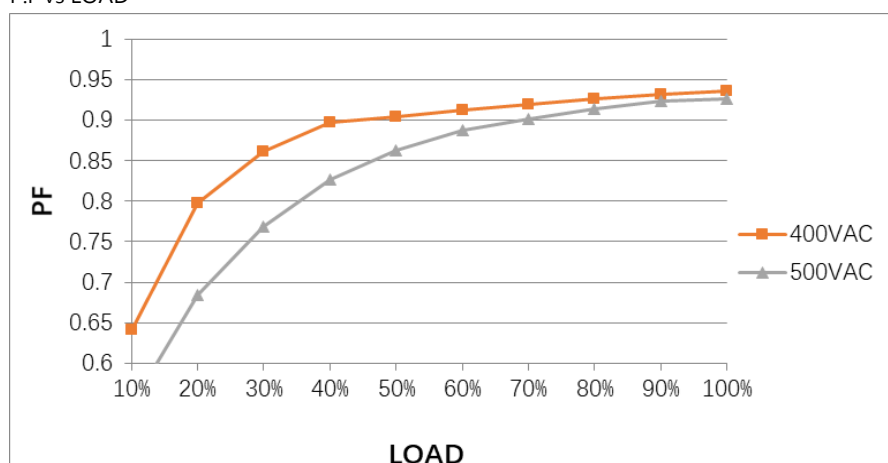
			Ta:25°C	
	FULL /MIN LOAD 50%DUTY / 120HZ 		FULL / MIN LOAD 50%DUTY / 1KHZ 	
11	TRANSIENT RECOVERY TIME	V1: 2400mVp-p <500us	I/P: 400VAC O/P:40% LOAD CHANGE 50%DUTY/120HZ 1.25A/us	539mVp-p
12	PEAK LOAD 开机&循环	1) PEAK LOAD@5S 2) PEAK LOAD 循环  For example (240W model): $V_{in} = 320V$, $I_{in} = 1.5A$ $P_{in} = 480W$ $\eta = 50\%$ $P_{out} = 240W$ $P_{in} = 1.5A \times 320V = 480W$ $P_{out} = 240W$	I/P: 600VAC I/P: 400VAC I/P: 320VAC O/P: PEAK LOAD	TEST : I/P: 600VAC <u>OK</u> I/P: 400VAC <u>OK</u> I/P: 320VAC <u>OK</u>

INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	Three-Phase 320VAC~600VAC (Dual phase operation possible) 450VDC~800VDC/ FULL LOAD	(1) I/P: TESTING O/P: FULL LOAD Dual phase DC Input : (2) I/P: DC TESTING O/P: FULL LOAD Ta:25°C	(1) 260Vac~600Vac/ FULL LOAD Dual phase DC Input : (2) 427Vdc~800Vdc/FULL LOAD
			I/P: HIGH-LINE +10V=610 V O/P:FULL/MIN LOAD (PLEASE CHECK DERATING CURVE) ON: 30 Sec OFF: 30 Sec 10MIN (POWER ON/OFF NO DAMAGE)	TEST: OK
			Dual phase operation: I/P: TESTING O/P: FULL LOAD /90% LOAD /85% LOAD/80% LOAD	329Vac~600Vac/ FULL LOAD 325Vac~600Vac/ 90% LOAD 325Vac~600Vac/ 85% LOAD 325Vac~600Vac/ 80% LOAD
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P: 320VAC~ 600VAC O/P:FULL~MIN LOAD Ta:25°C	TEST: OK

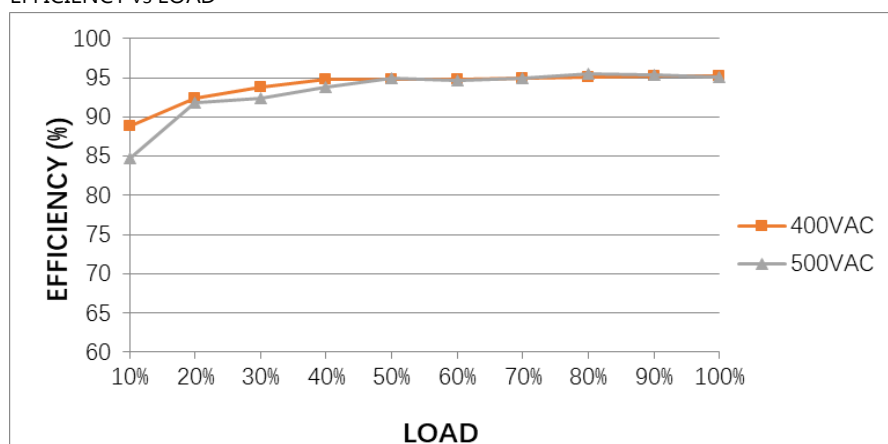
3	INPUT CURRENT (Typ.)	400V/ 0.85 A 500V/ 0.7 A	I/P : 400 VAC I/P : 500 VAC O/P : FULL LOAD Ta : 25°C	TEST: <table><tr><td></td><td>400VAC</td><td>500VAC</td></tr><tr><td>L1</td><td>0.775A</td><td>0.627A</td></tr><tr><td>L2</td><td>0.775A</td><td>0.627A</td></tr><tr><td>L3</td><td>0.775A</td><td>0.627A</td></tr></table>		400VAC	500VAC	L1	0.775A	0.627A	L2	0.775A	0.627A	L3	0.775A	0.627A
	400VAC	500VAC														
L1	0.775A	0.627A														
L2	0.775A	0.627A														
L3	0.775A	0.627A														
4	LEAKAGE CURRENT	< 3.5mA / 530 VAC	I/P : 530 VAC O/P : Min LOAD Ta : 25°C	L1,L2,L3-FG : 1.84mA(Peak)→62368												
5	NOLOAD CONSUMPTION	3.1 W/400VAC/RC OFF 5.0 W/400VAC/RC ON	I/P : 400 VAC O/P : NO LOAD Ta : 25°C	2.32W/400Vac→ RC OFF 3.98W/400Vac→ RC ON												
6	POWER FACTOR (Typ.)	PF=0.92 /400VAC PF=0.88 /500VAC	I/P : 400 VAC I/P : 500 VAC O/P : FULL LOAD Ta : 25°C	TEST: <table><tr><td></td><td>400VAC</td><td>500VAC</td></tr><tr><td>L1</td><td>0.9359</td><td>0.9271</td></tr><tr><td>L2</td><td>0.9359</td><td>0.9274</td></tr><tr><td>L3</td><td>0.9361</td><td>0.9276</td></tr></table>		400VAC	500VAC	L1	0.9359	0.9271	L2	0.9359	0.9274	L3	0.9361	0.9276
	400VAC	500VAC														
L1	0.9359	0.9271														
L2	0.9359	0.9274														
L3	0.9361	0.9276														

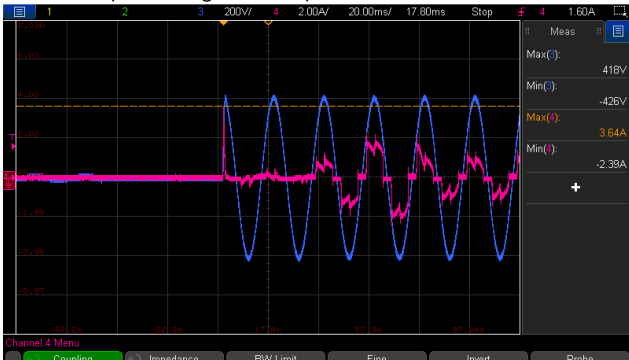
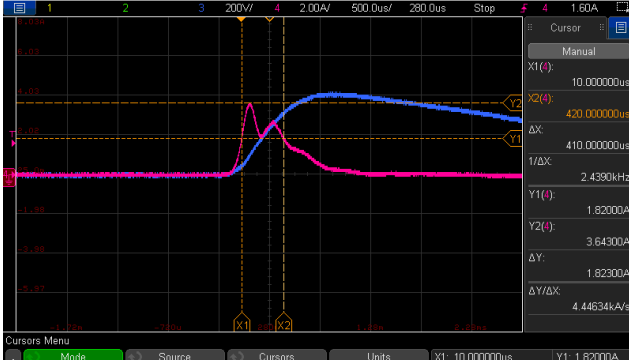
P.F vs LOAD



7	EFFICIENCY(Typ.)	94%	I/P: 400 VAC O/P:FULL LOAD Ta:25°C	95.1%
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EFFICIENCY vs LOAD



8	INRUSH CURRENT(Typ.)	500V/10A COLD START	I/P : 500 VAC O/P : FULL LOAD/PEAK LOAD Ta : 25°C	I =3.64A/ 500VAC@ FULL LOAD T50= 410us/500V@ FULL LOAD
INPUT=500VAC/50HZ @ FULL LOAD CH3: AC Input Voltage CH4: Input current  				

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER LOAD PROTECTION	105%~ 200% rated power Protection type: Normally works within 105 ~ 200% rated output power for more than 5 seconds then constant current limiting without shut down at rate current when Vo=30%~100% Hiccup mode when Vo < 30% rate voltage	I/P: 600VAC I/P: 400VAC I/P: 320VAC O/P:TESTING Ta:25°C	121%/600VAC 121%/400VAC 121%/320VAC Protection type: Normally works within 105 ~ 200% rated output power for more than 5 seconds then constant current limiting without shut down at rate current when Vo=30%~100% Hiccup mode when Vo < 30% rate voltage
2	OVER VOLTAGE PROTECTION	30V~35V Protection type: Shut down o/p voltage, re-power on to recover	I/P: 600VAC I/P: 320VAC O/P:MIN LOAD Ta:25°C	33.8V/ 600VAC 33.8V/ 320VAC Protection type: Shut down o/p voltage, re-power on to recover
3	OVER TEMPERATURE PROTECTION	Protection type: Shut down o/p voltage or hiccup mode, recovers automatically after temperature goes down	I/P: 600VAC I/P: 320VAC O/P:FULL LOAD	TEST: <u>OK</u>
4	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE Protection type: Hiccup mode when Vo<30% rated voltage	I/P: 600VAC I/P: 320VAC O/P: FULL LOAD Ta:25°C	NO DAMAGE Protection type: Hiccup mode when Vo<30% rated voltage

CONTROL FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	DC OK CONTACT RATINGS	30VDC/1A , 30VAC/0.5A RESISTIVE LOAD	I/P:400VAC O/P:FULL LOAD Ta:25°C	TEST: <u>OK</u>
2	REMOTE CONTROL	Power ON: RC+ ~ RC- open or keep 2~5Vdc Power OFF: RC+ ~ RC- short or keep<0.5Vdc	I/P:400VAC O/P:FULL LOAD Ta:25°C	PS-ON = <u>1.85</u> V Power ON PS-ON = <u>1.4</u> V Power OFF
3	PARALLEL	Up to 1920W (3+1), please refer to Function Manual for more details	I/P: TESTING O/P: TESTING LOAD Ta:25°C	TEST: <u>OK</u>

COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Transistor (D to S) or (C to E) Peak Voltage	Q1/Q2 : Rated: 600 V/24A	AC ON/OFF I/P: High-Line +3V =603V 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. (8) Peak Load Ta:25°C	Q1 VDS: (1) 469V (2) 521V (3) 465V (4) 465V (5) 465V (6) 453V (7) 525V (8) 497V Q2 VDS: (1) 453V (2) 473V (3) 453V (4) 449V (5) 449V (6) 441V (7) 469V (8) 465V
2	P.F.C Transistor (D to S) or (C to E) Peak Voltage	Q909/910 : Rated: 1200V/17	AC ON/OFF I/P: High-Line +3V =603V 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/	Q909 VDS: (1) 426V (2) 397V (3) 446V (4) 438V (5) 450V (6) 430V (7) 397V (8) 401V Q910 VDS: (1) 875V (2) 947V (3) 851V (4) 867V (5) 851V (6) 883V (7) 851V (8) 947V

			Min. Load 50%Duty/120Hz (7)0%→400% Load. (8) Peak Load Ta:25°C	
3	P.F.C DIODE	D34 : Rated: 10 A/ 1200 V	I/P: High-Line +3V =603 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 (5) Peak Load Ta:25°C	(1) 1012V (2) 923V (3) 988V (4) 988V (5) 972V
4	Diode Peak Voltage	Q102/Q104: Rated: 120V/86A	AC ON/OFF I/P: High-Line +3V =603 V <u>VO=Vomax</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 (9) burst Mode (10) Peak Load <u>VO=Vnormal</u> O/P: (1) Full Load Ta:25°C	Q102: <u>VO=Vomax</u> VDS: (1) 73.7V (2) 73.7V (3) 74.7V (4) 74.7V (5) 74.7V (6) 74.2V (7) 92.3V (8) 71.1V (9) 71.7V (10) 79.0V <u>VO=Vnormal</u> (1) 66.9V Q104: <u>VO=Vomax</u> VDS: (1) 75.3V (2) 75.3V (3) 75.3V (4) 75.9V (5) 75.9V (6) 75.3V (7) 89.2V (8) 73.5V (9) 73.5V (10) 79.6V <u>VO=Vnormal</u> (1) 68.1V
5	Input Capacitor Voltage	C5 : Rated: 150u/450V	I/P: High-Line +3V =603V O/P: (1)Full Load input on/off (2) Min load input on /Off (3) Full Load /Min load Change (4) Full load continue (5) Peak Load on/off (6) Peak Load continue Ta:25°C	(1) 416V (2) 428V (3) 424V (4) 412V (5) 428V (6) 412V
6	Control IC Voltage Test	PWM IC U4: Rated :8.9~15.5V PFC IC U2: Rated:11.4~20V	AC ON/OFF I/P: High-Line +3V =603 V O/P: (1) Full Load (2) Output Short (3) O.L.P	U4 (1) 12.06V (2) 12.06V (3) 12.06V (4) 12.06V

		IC U1 : Rated : VDDI to GNDI :3V~ 18V VDDA to GNDA, VDDDB to GNDB: 7V~ 25V O/P IC U101 : Rated : 4.75V~38V IC U105: Rated:3 V ~30 V IC U103 Rated :3.3V~36V IC U102: Rated:3V~ 32 V	(4) O.V.P. (5) No Load VR min (Low Line) Ta:25°C	(5) 11.57V U2/U1 (1) 17.3V (2) 17.7V (3) 15.7V (4) 15.1V (5) 13.1V U101/ U103/U105 (1) 16.9V (2) 15.7V (3) 16.3V (4) 16.9V (5) 14.1V U102 (1) 14.6V (2) 15.4V (3) 16.8V (4) 13.7V (5) 13.7V
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■ SAFETY& E.M.C. TEST

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P: 4.87KVAC/min I/P-FG :2.5KVAC/min O/P-FG:0.5KVAC/min O/P-DC OK: 0.5KVAC/min	I/P-O/P: 5.357KVAC/min I/P-FG: 3 KVAC/min O/P-FG:0.6 KVAC/min O/P-DC OK: 0.6 KVAC/min Ta:25°C	I/P-O/P: 8.55 mA I/P-FG: 9.13 mA O/P-FG: 4.32 mA O/P-DC OK: 0.009 mA NO DAMAGE
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ I/P-FG: 500VDC>100MΩ O/P-FG:500VDC>100MΩ	I/P-O/P: 600 VDC I/P-FG: 600 VDC O/P-FG: 600 VDC Ta:25°C	I/P-O/P: 50 GΩ I/P-FG: 50 GΩ O/P-FG: 50 GΩ NO DAMAGE
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100mΩ	40A /2min Ta:25°C	8 mΩ

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	HARMONIC	BS EN/EN61000-3-2 ■ CLASS A	I/P:400VAC/50HZ O/P:FULL LOAD Ta:25°C	PASS
2	CONDUCTION	BS EN/EN55032(CISPR32) / BS EN/EN61204-3 / CNS15936 CLASS B	I/P : 400 VAC (50HZ) O/P : FULL/50% LOAD Ta : 25°C	PASS Test by certified Lab
3	RADIATION	BS EN/EN55032(CISPR32) / BS EN/EN61204-3 / CNS15936 CLASS B	I/P : 400 VAC (50HZ) O/P : FULL LOAD Ta : 25°C	PASS Test by certified Lab
4	E.S.D	BS EN/ EN61000-4-2 AIR : 15KV / Contact : 8KV	I/P : 400 VAC/50HZ O/P : FULL LOAD Ta : 25°C	CRITERIA A
5	E.F.T	BS EN/ EN61000-4-4 INPUT : 4KV	I/P : 400 VAC/50HZ O/P : FULL LOAD Ta : 25°C	CRITERIA A
6	SURGE	BS EN/ EN61000-4-5 Line-Line : 2KV Line-Earth : 4KV	I/P : 400 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 : XTR-480-24 1. ROOM AMBIENT BURN-IN : 2HRS I/P : 400VAC O/P : FULL LOAD Ta=21.6°C 2. HIGH AMBIENT BURN-IN : 2HRS I/P : 400VAC O/P : FULL LOAD Ta=59.3°C <table><tr><th>NO</th><th>Position</th><th>ROOM AMBIENT Ta=21.6°C</th><th>HIGH AMBIENT Ta=59.3°C</th></tr><tr><td>1</td><td>RTH3</td><td>58°C</td><td>99.6°C</td></tr><tr><td>2</td><td>C104</td><td>58.7°C</td><td>100.7°C</td></tr><tr><td>3</td><td>C67</td><td>51.6°C</td><td>94.8°C</td></tr><tr><td>4</td><td>U9</td><td>42.4°C</td><td>84.3°C</td></tr><tr><td>5</td><td>T1coil</td><td>71.2°C</td><td>115.6°C</td></tr><tr><td>6</td><td>T1core</td><td>64°C</td><td>111.3°C</td></tr><tr><td>7</td><td>Q1</td><td>54°C</td><td>107.7°C</td></tr></table>			NO	Position	ROOM AMBIENT Ta=21.6°C	HIGH AMBIENT Ta=59.3°C	1	RTH3	58°C	99.6°C	2	C104	58.7°C	100.7°C	3	C67	51.6°C	94.8°C	4	U9	42.4°C	84.3°C	5	T1coil	71.2°C	115.6°C	6	T1core	64°C	111.3°C	7	Q1	54°C	107.7°C
NO	Position	ROOM AMBIENT Ta=21.6°C	HIGH AMBIENT Ta=59.3°C																																	
1	RTH3	58°C	99.6°C																																	
2	C104	58.7°C	100.7°C																																	
3	C67	51.6°C	94.8°C																																	
4	U9	42.4°C	84.3°C																																	
5	T1coil	71.2°C	115.6°C																																	
6	T1core	64°C	111.3°C																																	
7	Q1	54°C	107.7°C																																	

NO	Position	ROOM AMBIENT Ta=21.6°C	HIGH AMBIENT Ta=59.3°C
8	Q2	57°C	114.5°C
9	Q910	76.7°C	119.2°C
10	Q909	60.3°C	111.5°C
11	C6	39°C	81.8°C
12	U1	66.9°C	108.7°C
13	C28	45.9°C	87.9°C
14	D4	55.5°C	94.6°C
15	D8	62.4°C	101.3°C
16	U2	58°C	98.7°C
17	C115	58°C	100.8°C
18	C93	54.2°C	94.2°C
19	Q110	62.3°C	91.5°C
20	U102	60.6°C	91.5°C
21	T2	49.3°C	87.8°C
22	L5	54.6°C	92.7°C
23	Q13	44°C	80.7°C
24	D53	50.5°C	86.5°C
25	U105	57.6°C	90°C
26	Q104	66.5°C	94.8°C
27	U4	53.2°C	88.9°C
28	Q103	65.5°C	93.3°C
29	U101	59.6°C	92.4°C
30	Q12	44.3°C	84.6°C
31	Q100	73.4°C	104.8°C
32	C125	38.8°C	78.1°C
33	C109	49.7°C	82.3°C
34	LF100	55.5°C	97°C
35	L1	51.8°C	93.4°C
36	ZNR1	40.5°C	82°C
37	C1	45.2°C	86.1°C
38	LF1	47.7°C	89.7°C
39	C13	53°C	95.5°C
40	LF900	60.3°C	109.2°C
41	D34	59.5°C	101.9°C
42	LF4	50.1°C	92.1°C
43	C7	36.9°C	78.2°C
44	ZNR6	47.3°C	91.2°C
45	L4	50.9°C	92.6°C
46	U3	56.4°C	97.5°C
47	R205	69.5°C	108.4°C

2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)	I/P : 400 VAC O/P : 120%LOAD Ta : 25°C	TEST : OK
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480W AC/DC Three-Phase Input Ultra Slim
Industrial DIN Rail Power

XTR-480 series

3	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 600VAC/340VAC 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 60°C/95 %R.H NO DAMAGE	I/P : 610VAC O/P : FULL LOAD Ta= 60°C HUMIDITY= 95 %R.H	TEST : OK
5	TEMPERATURE COEFFICIENT	± 0.03 %/°C(0~60°C)	I/P : 400 VAC O/P : FULL LOAD	± 0.006 %/°C(0~60°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	-40~60°C	1. Thermal shock Temperature : -45°C~ +65°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:400V/ FULL LOAD AC ON 3sec/AC OFF 1sec TEST 1cycle:400V/ FULL LOAD Burn In Test	
8	VIBRATION TEST	10 ~ 500Hz, 2G 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 : 3G (5) Test Time : 180min in each axis (X.Y.Z) (6) Ta : 25°C	
9	CAPACITOR LIFE CYCLE	SUPPOSE C 114 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= 60 °C LIFE TIME (3) I/P : 400VAC O/P : 75% LOAD Ta= 60 °C LIFE TIME (4) I/P : 400VAC O/P : 50% LOAD Ta= 60 °C LIFE TIME		(1) 325048HRS (2) 19760HRS (3) 57645HRS (4) 159968HRS
10	MTBF	Conducted by Parts Stress Analysis Prediction 1267.7K hrs min. Telcordia SR-332 (Bellcore) ; 167.4K hrs min. MIL-HDBK-217F (25°C)		
11	Ongoing Reliability Test	I/P : 400VAC O/P : FULL LOAD TA=50°C Demonstration Mean Time Between Failure : 50,000 hours		

TEST RESULT	TESTER	REVIEW	APPROVAL
PASS	Hanxr	Liutt	Wangzd

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