



Test Report: XTR-480-36

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

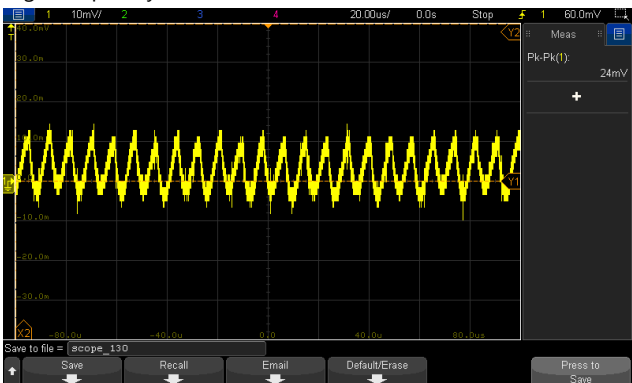
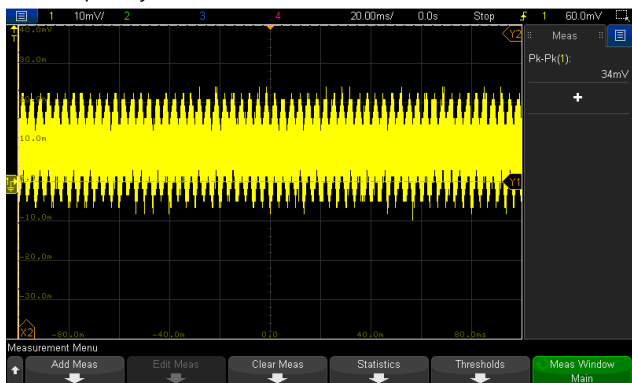
E.M.C. Test

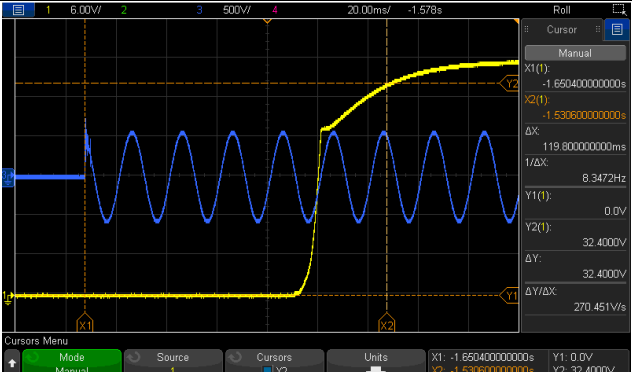
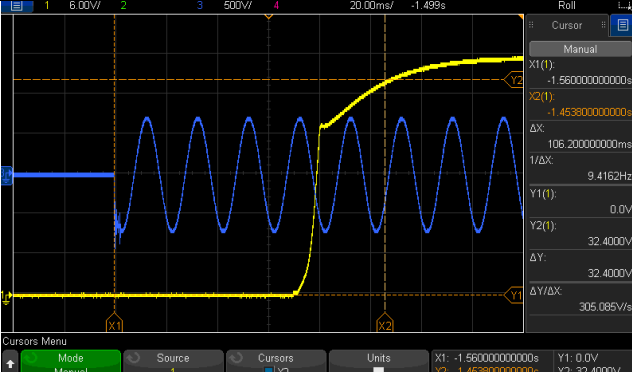
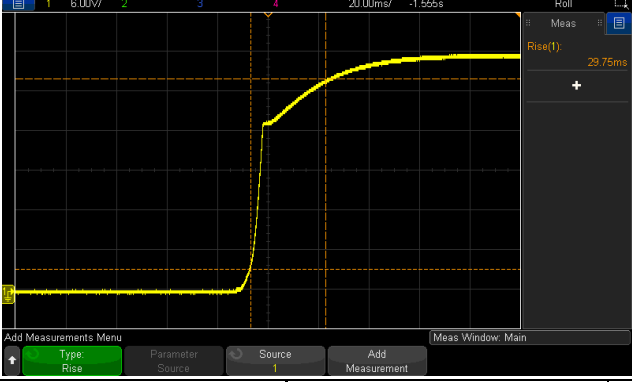
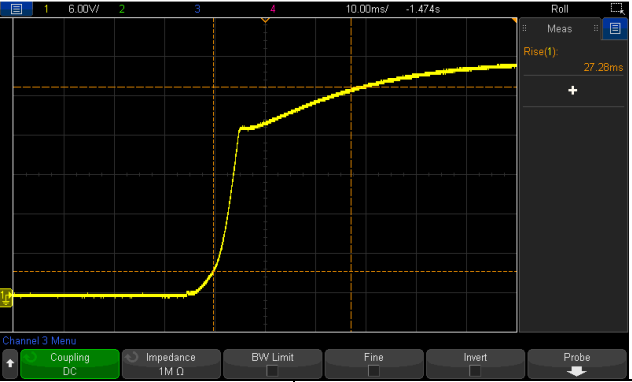
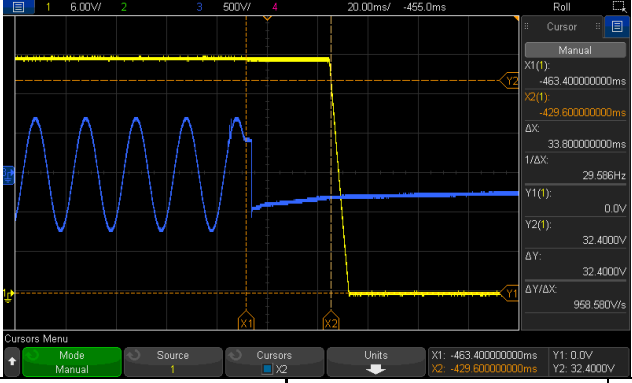
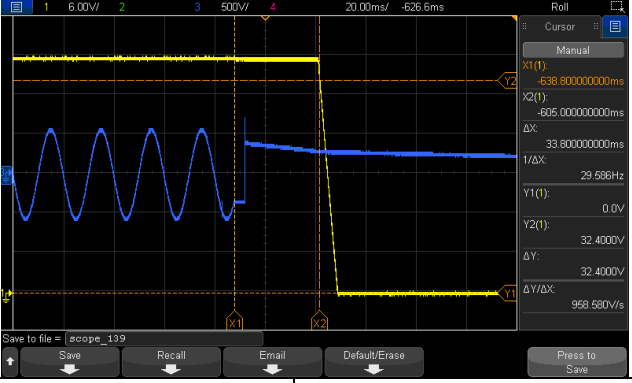
■ RELIABILITY TEST

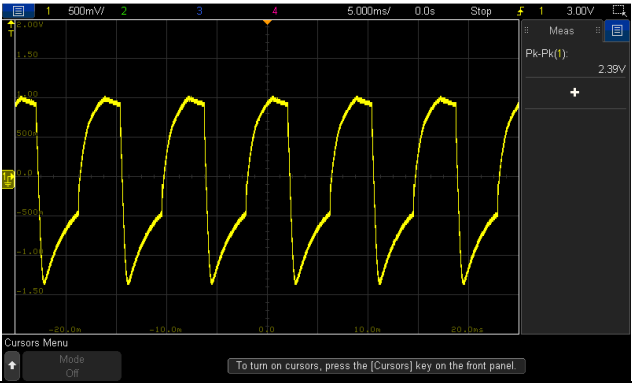
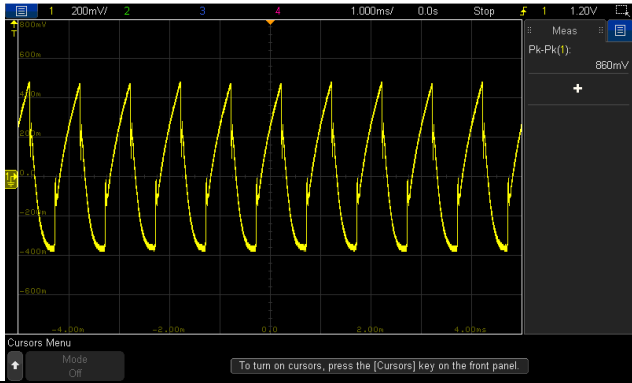
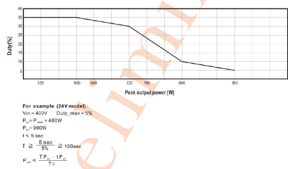
ENVIRONMENT TEST

■ DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT VOLTAGE ADJUST RANGE	CH1: 36V~42V	I/P : 400 VAC I/P : 500 VAC O/P : MIN LOAD Ta : 25°C	34.675V~43.237V/400VAC 34.675V~43.237V /500VAC
2	OUTPUT VOLTAGE TOLERANCE	V1: -1% ~ +1%	I/P: 320VAC ~ 600VAC O/P:FULL/ MIN. LOAD Ta:25°C	V1: -0.10% ~ 0.09%
3	LINE REGULATION	V1: -0.5% ~ +0.5%	I/P: 320VAC~ 600VAC O/P:FULL LOAD Ta:25°C	V1: 0% ~ 0.01%
4	LOAD REGULATION	V1: -1% ~ +1%	I/P: 400VAC O/P:FULL ~MIN LOAD Ta:25°C	V1: -0.10% ~ 0.09%
5	OVER/UNDERSHOOT TEST	<±5%	I/P: 400VAC O/P:FULL LOAD/NO LOAD Ta:25°C	-3.38% →FULL LOAD 4.14% →NO LOAD -5.32% →PEAK LOAD
6	RIPPLE & NOISE (Max)	V1: 150mVp-p	I/P:400VAC O/P: FULL LOAD Ta:25°C	24mVp-p / high frequency 34mVp-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	119.8ms/400VAC 106.2ms/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	

		400VAC/60ms 500VAC/60ms	I/P : 400 VAC I/P : 500 VAC O/P : FULL LOAD Ta : 25°C	
8	RISE TIME (Max)			29.75ms/400VAC 27.28ms/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	33.8ms/400VAC 33.8ms/500VAC
	INPUT=400VAC/50HZ @ FULL LOAD CH1: Output Voltage CH3: ACInput Voltage 		INPUT=500VAC/60HZ @ FULL LOAD CH1: Output Voltage CH3: ACInput Voltage 	
10	DYNAMIC LOAD	V1: 3600mVp-p	I/P: 400VAC O/P: (1) FULL / MIN LOAD 50%DUTY / 120HZ (2) FULL / MIN LOAD 50%DUTY / 1KHZ	2390mVp-p 860mVp-p

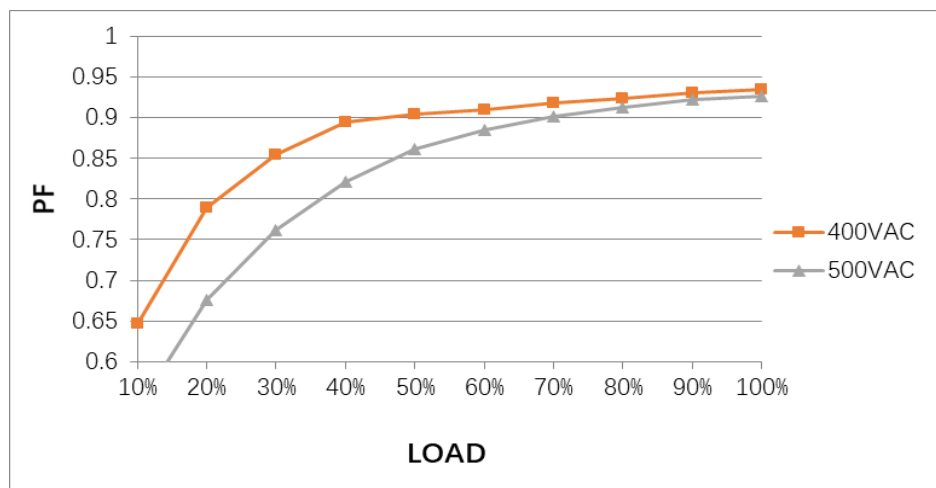
			Ta:25°C	
	FULL / MIN LOAD 50%DUTY / 120HZ		FULL / MIN LOAD 50%DUTY / 1KHZ	
				
11	TRANSIENT RECOVERY TIME	V1: 3600mVp-p <500us	I/P: 400VAC O/P:40% LOAD CHANGE 50%DUTY/120HZ 1.25A/us	820mVp-p
12	PEAK LOAD 开机&循环	1) PEAK LOAD@5S 2) PEAK LOAD 循环 	I/P: 600VAC I/P: 400VAC I/P: 320VAC O/P: PEAK LOAD	TEST : 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	(1) 294Vac~600Vac/ FULL LOAD
			Dual phase DC Input : (2) I/P: DC TESTING O/P: FULL LOAD Ta:25°C	Dual phase DC Input : (2) 430Vdc~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 NODAMAGE)	TEST: OK
			Dual phase operation: I/P: TESTING O/P: FULL LOAD /90% LOAD /85% LOAD/80% LOAD	319Vac~600Vac/ FULL LOAD 314Vac~600Vac/ 90% LOAD 314Vac~600Vac/ 85% LOAD 314Vac~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

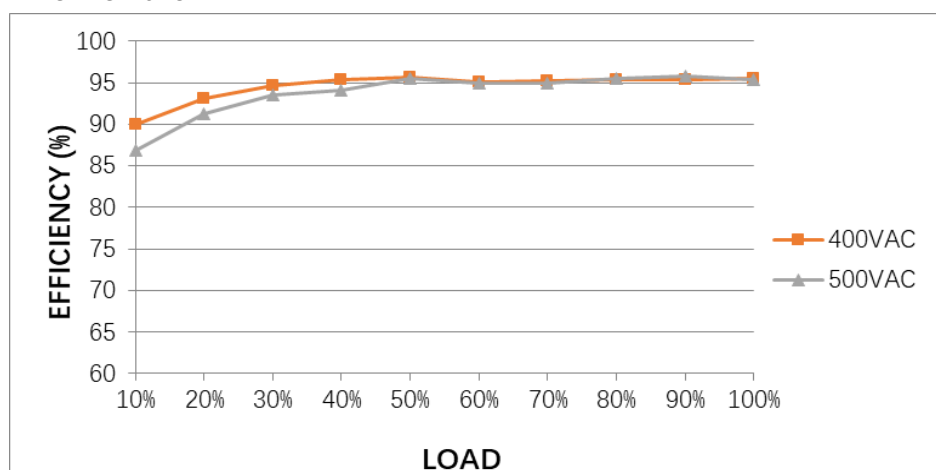
3	INPUT CURRENT (Typ.)	400V/ 0.85 A 500V/ 0.7 A	I/P : 400 VAC I/P : 500 VAC O/P : FULL LOAD Ta : 25°C	TEST:		
					400VAC	500VAC
				L1	0.784A	0.634A
				L2	0.785A	0.629A
				L3	0.789A	0.629A
4	LEAKAGE CURRENT	< 3.5mA / 530 VAC	I/P : 530 VAC O/P : Min LOAD Ta : 25°C	L1,L2,L3-FG : 1.3mA(Peak)→62368		
5	NO LOAD CONSUMPTION	Remote Power OFF: 3.1W/400Vac Remote Power ON: 5.0W/400Vac	I/P : 400 VAC O/P : NO LOAD Ta : 25°C	1.96W/400Vac→RC OFF 4.29W/400Va→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:		
					400VAC	500VAC
				L1	0.9331	0.9199
				L2	0.9321	0.9196
				L3	0.9332	0.9184

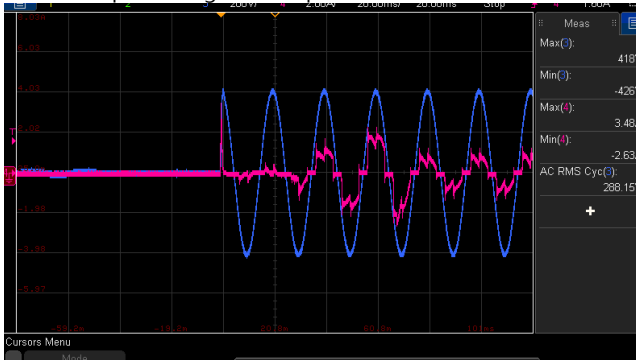
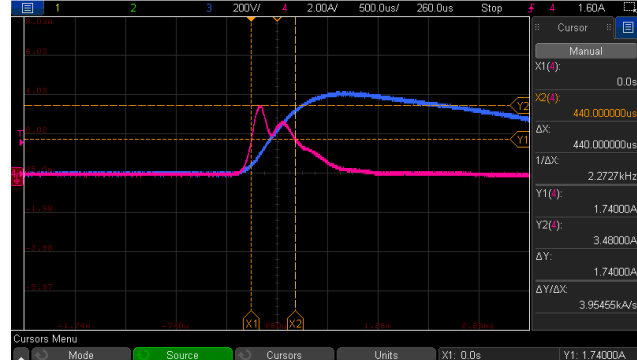
P.F vs LOAD



7	EFFICIENCY(Typ.)	94.5%	I/P: 400 VAC O/P:FULL LOAD Ta:25°C	95.14%
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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 = 3.48A/ 500VAC@ FULL LOAD T50= 440us/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	127%/600VAC 127%/400VAC 127%/320VAC 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	43V~50V 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	45.8V/ 600VAC 45.8V/ 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>1.9</u> V Power ON PS-ON = <u>1.6</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	ACON/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 Q2 VDS: VDS: (1) 479V (1) 459V (2) 535V (2) 467V (3) 471V (3) 450V (4) 475V (4) 455V (5) 475V (5) 450V (6) 459V (6) 438V (7) 507V (7) 463V (8) 499V (8) 475V
2	P.F.C Transistor (D to S) or (C to E) Peak Voltage	Q909/910 : Rated: 1200V/17A	ACON/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 Q910 VDS: VDS: (1) 430V (1) 981V (2) 394V (2) 965V (3) 434V (3) 949V (4) 402V (4) 917V (5) 398V (5) 933V (6) 426V (6) 933V (7) 386V (7) 837V (8) 430V (8) 973V

			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) 973V (2) 1030V (3) 1030V (4) 1030V (5) 1078V
4	Diode Peak Voltage	Q102/Q104: Rated: 76A/150V	ACON/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) 111.0V (2) 111.0V (3) 115.0V (4) 115.0V (5) 115.8V (6) 115.0V (7) 134.6V (8) 104.5V (9) 105.4V (10) 120.2V <u>VO=Vnormal</u> (1) 101.3V Q104: <u>VO=Vomax</u> VDS: (1) 113.7V (2) 111.9V (3) 118.4V (4) 117.4V (5) 118.4V (6) 117.4V (7) 135.0V (8) 105.4V (9) 108.2V (10) 120.2V <u>VO=Vnormal</u> (1) 102.6V
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) 422V (2) 430V (3) 426V (4) 414V (5) 426V (6) 410V
6	Control IC Voltage Test	PWM IC U4: Rated :8.9~15.5V PFC IC U2:	ACON/OFF I/P: High-Line +3V =267 V O/P: (1) Full Load (2) Output Short	U4 (1) 12.30V (2) 12.22V (3) 12.30V

		Rated:11.4~20V 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	(3) O.L.P (4) O.V.P. (5) No Load VR min (Low Line) Ta:25°C	(4) 12.22V (5) 12.06V U2/U1 (1) 17.8V (2) 16.8V (3) 16.7V (4) 17.3V (5) 17.7V U101/ U103/U105 (1) 12.50V (2) 12.58V (3) 12.58V (4) 12.50V (5) 12.50V U102 (1) 8.98V (2) 9.71V (3) 9.54V (4) 8.75V (5) 9.03V
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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: 8.16 mA I/P-FG: 9.11 mA O/P-FG: 3.45 mA O/P-DC OK: 0.006 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-480-36 1. ROOM AMBIENT BURN-IN : 2HRS I/P : 400VAC O/P : FULL LOAD Ta= 26.5°C 2. HIGH AMBIENT BURN-IN : 2HRS I/P : 400VAC O/P : FULL LOAD Ta= 60.5°C <table><tr><th>NO</th><th>Position</th><th>ROOM AMBIENT Ta=26.5°C</th><th>HIGH AMBIENT Ta=60.5°C</th></tr><tr><td>1</td><td>ZNR6</td><td>54.6°C</td><td>93°C</td></tr><tr><td>2</td><td>L4</td><td>57.5°C</td><td>94.9°C</td></tr><tr><td>3</td><td>C6</td><td>47.1°C</td><td>84.5°C</td></tr><tr><td>4</td><td>D34</td><td>62.9°C</td><td>100.2°C</td></tr><tr><td>5</td><td>LF4</td><td>55.9°C</td><td>93.5°C</td></tr><tr><td>6</td><td>T1coil</td><td>80°C</td><td>116.2°C</td></tr></table>			NO	Position	ROOM AMBIENT Ta=26.5°C	HIGH AMBIENT Ta=60.5°C	1	ZNR6	54.6°C	93°C	2	L4	57.5°C	94.9°C	3	C6	47.1°C	84.5°C	4	D34	62.9°C	100.2°C	5	LF4	55.9°C	93.5°C	6	T1coil	80°C	116.2°C
NO	Position	ROOM AMBIENT Ta=26.5°C	HIGH AMBIENT Ta=60.5°C																													
1	ZNR6	54.6°C	93°C																													
2	L4	57.5°C	94.9°C																													
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4	D34	62.9°C	100.2°C																													
5	LF4	55.9°C	93.5°C																													
6	T1coil	80°C	116.2°C																													

NO	Position	ROOM AMBIENT Ta=26.5℃	HIGH AMBIENT Ta=60.5℃
7	T1core	71℃	106℃
8	Q1	60.3℃	99.6℃
9	Q2	67.6℃	107.6℃
10	C93	59.7℃	98.4℃
11	C67	54.9℃	93.9℃
12	TSW1	45.4℃	83.2℃
13	R954	69.7℃	106.2℃
14	Q13	52℃	87.5℃
15	D4	62.5℃	97℃
16	D52	59.8℃	95.5℃
17	D8	64.4℃	98.5℃
18	C28	53.2℃	89.8℃
19	Q910	70℃	106.8℃
20	Q909	68.7℃	105.5℃
21	LF900	64.7℃	104.8℃
22	U1	69.5℃	106.1℃
23	C115	60.7℃	97.6℃
24	C114	59.2℃	96.5℃
25	C104	59.1℃	96.1℃
26	T2	56℃	94.6℃
27	RTH3	63.7℃	99.9℃
28	C109	52.9℃	88.7℃
29	LF100	57.8℃	94℃
30	R205	63.4℃	99.7℃
31	U3	65.6℃	103.8℃
32	U4	55.8℃	93.7℃
33	Q104	62.7℃	99.3℃
34	Q101	61.9℃	98.3℃
35	U105	57.3℃	93.5℃
36	C13	59.1℃	95.7℃
37	L5	60.9℃	99.8℃
38	C7	44.3℃	81℃
39	Q110	61.6℃	98.3℃
40	U9	51.3℃	88.5℃
41	Q12	51.3℃	88.7℃
42	Q100	63.3℃	99.7℃
43	L1	59.9℃	96.3℃
44	LF1	57.6℃	93.8℃
45	C1	56℃	91.5℃
46	ZNR1	52.1℃	87.9℃
47	U2	69℃	104.3℃

2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)	I/P : 400 VAC O/P : 125%LOAD Ta : 25°C	TEST : OK
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 : 610 VAC 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	± 0.005 %/°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 BurnIn 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/sweepcycle (4) Acceleration : 3G (5) Test Time : 180min in each axis (X.Y.Z) (6) Ta : 25°C	
9	CAPACITOR LIFE CYCLE	SUPPOSE C109 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) 479026 HRS (2) 37374 HRS (3) 79553 HRS (4) 115443 HRS
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 : FULLLOAD TA=50°C Demonstration Mean Time Between Failure : 5,000 hours		

TEST RESULT	TESTER	REVIEW	APPROVAL
PASS	Hanxr	Liutt	Wangzd

2020.10.1 TAG-QA-009