Test Report: XTR-960-36

960W AC/DC 3Ø 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

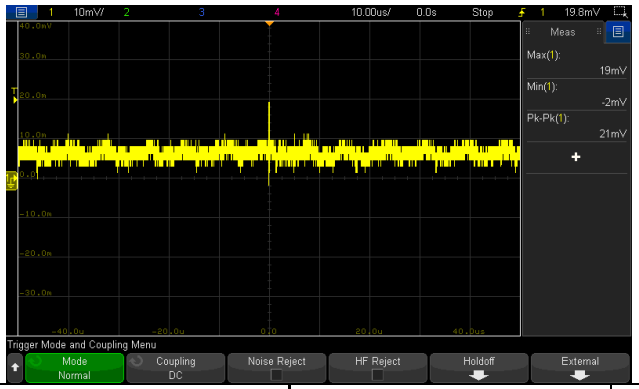
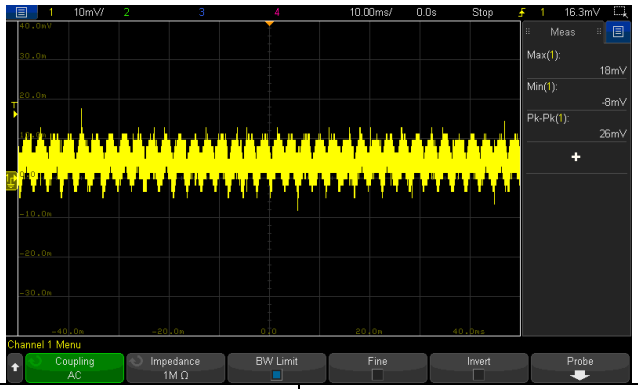
Safety Test
E.M.C. Test

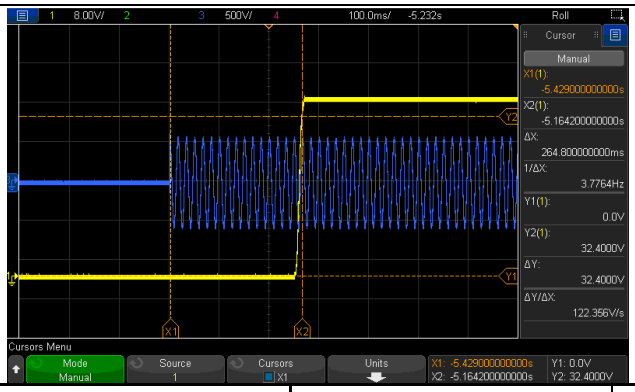
■ RELIABILITY TEST

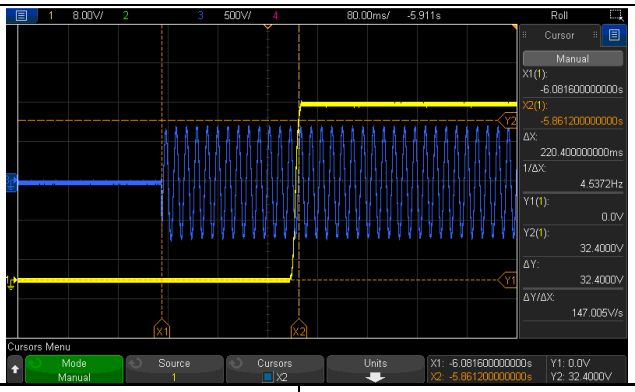
ENVIRONMENT TEST

■ DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

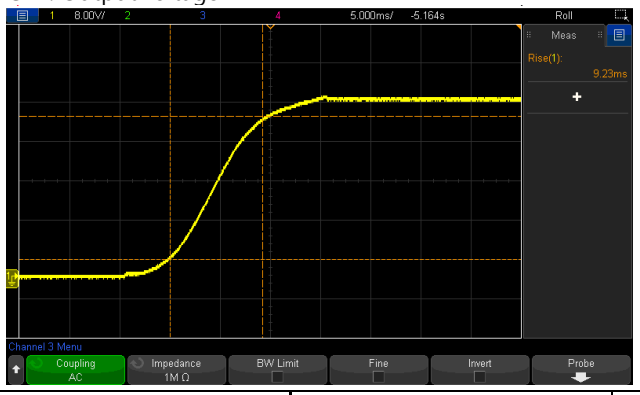
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT VOLTAGE ADJUST RANGE	CH1: 36V~42V	I/P： 400 VAC I/P： 500 VAC O/P：MIN LOAD Ta：25℃	34.788V~43.36V/400VAC 34.789V~43.35V/500VAC
2	OUTPUT VOLTAGE TOLERANCE	V1: -1% ~ +1%	I/P: 320VAC ~ 600VAC O/P:FULL/ MIN. LOAD Ta:25℃	V1: -0.178% ~ 0%
3	LINE REGULATION	V1: -0.5% ~ +0.5%	I/P: 320VAC~ 600VAC O/P:FULL LOAD Ta:25℃	V1: 0% ~ 0%
4	LOAD REGULATION	V1: -1% ~ +1%	I/P: 400VAC O/P:FULL ~MIN LOAD Ta:25℃	V1: -0.095 % ~ 0.092%
5	OVER/UNDERSHOOT TEST	<±5%	I/P: 400VAC O/P:FULL LOAD/NO LOAD Ta:25℃	1.70% →FULL LOAD 2.80% →NO LOAD
6	RIPPLE & NOISE (Max)	V1: 150mVp-p	I/P:400VAC O/P: FULL LOAD Ta:25℃	V1: 21mVp-p / high frequency 26mVp-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℃	264.8ms/400VAC 220.4ms/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	



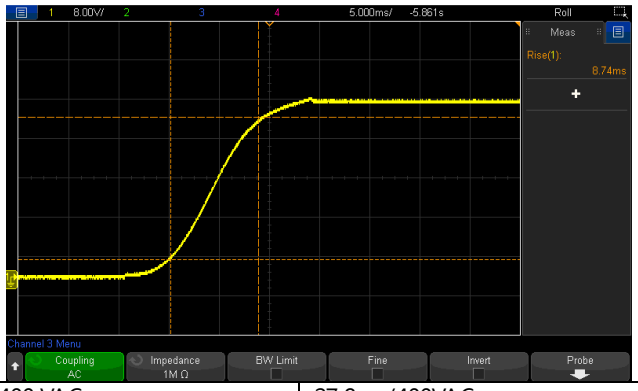


8	RISE TIME (Max)	400VAC/60ms 500VAC/60ms	I/P： 400 VAC I/P： 500 VAC O/P：FULL LOAD Ta：25℃	9.23ms/400VAC 8.74ms/500VAC

INPUT=400VAC/50HZ @ FULL LOAD
CH1: Output Voltage

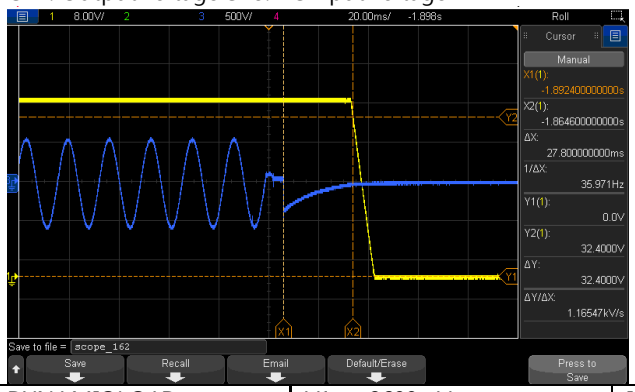


INPUT=500VAC/60HZ @ FULL LOAD
CH1: Output Voltage

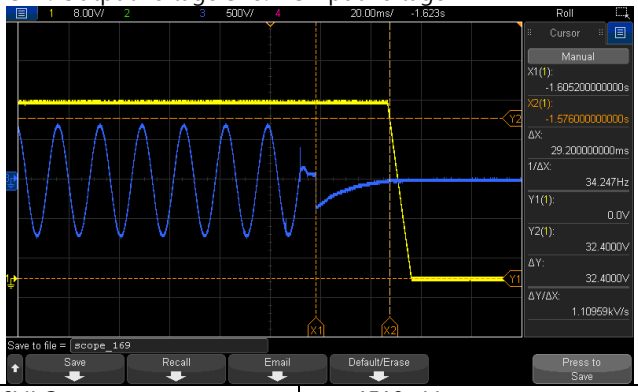


9	HOLD UP TIME (Typ.)	400VAC/20ms 500VAC/20ms	I/P： 400 VAC I/P： 500 VAC O/P：FULL LOAD Ta：25℃	27.8ms/400VAC 29.2ms/500VAC

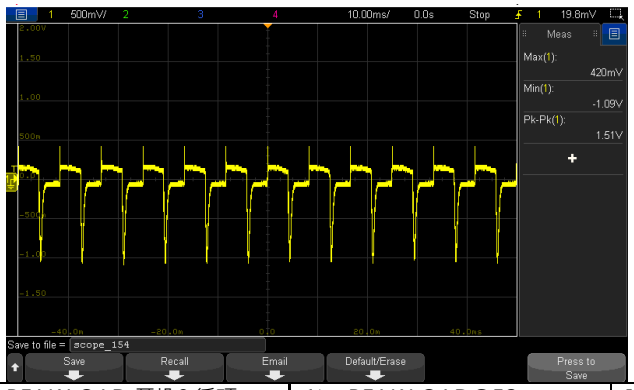
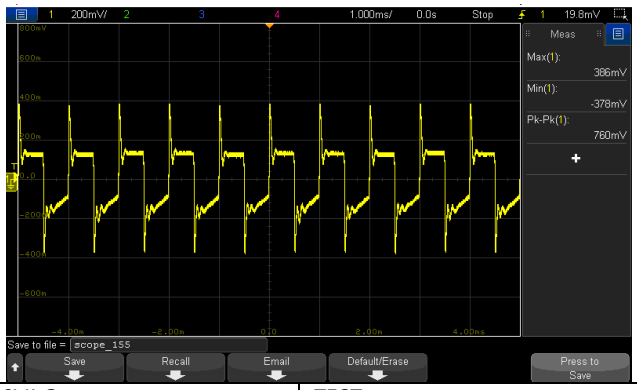
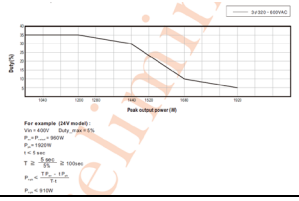
INPUT=400VAC/50HZ @ FULL LOAD
CH1: Output Voltage CH3: AC Input Voltage



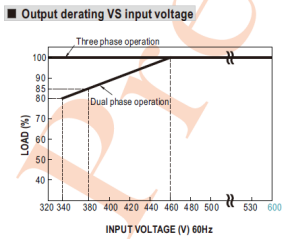
INPUT=500VAC/60HZ @ FULL LOAD
CH1: Output Voltage CH3: AC Input Voltage

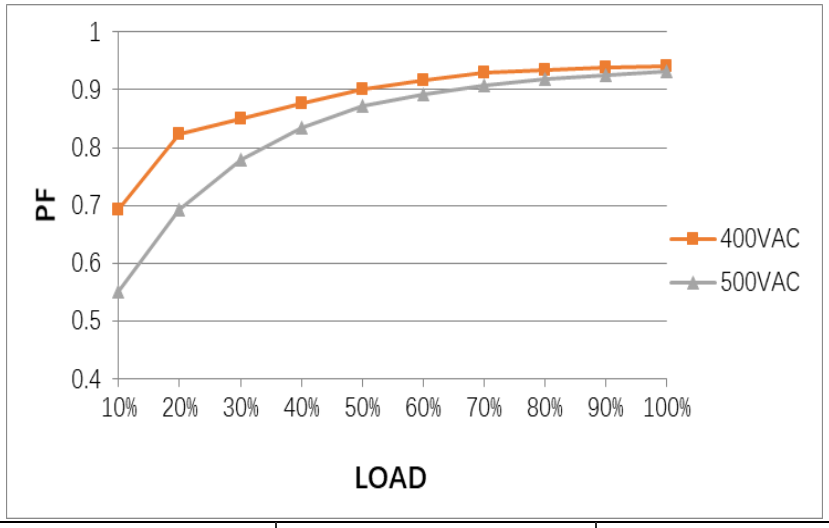
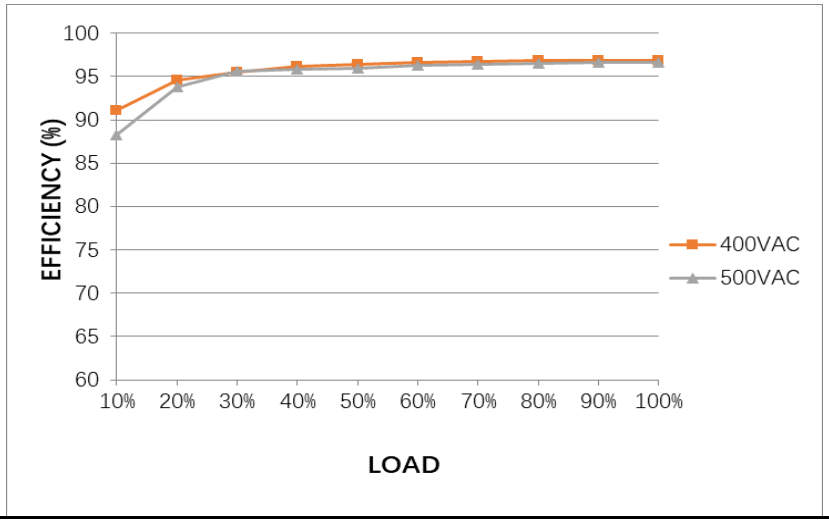


10	DYNAMIC LOAD	V1: 3600mVp-p	I/P: 400VAC O/P: (1) FULL / MIN LOAD 50%DUTY / 120HZ (2) FULL / MIN LOAD 50%DUTY / 1KHZ Ta:25℃	1510mVp-p 760mVp-p

	FULL /MIN LOAD 50%DUTY / 120HZ 		FULL / MIN LOAD 50%DUTY / 1KHZ 	
11	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 OK I/P: 400VAC OK I/P: 320VAC OK

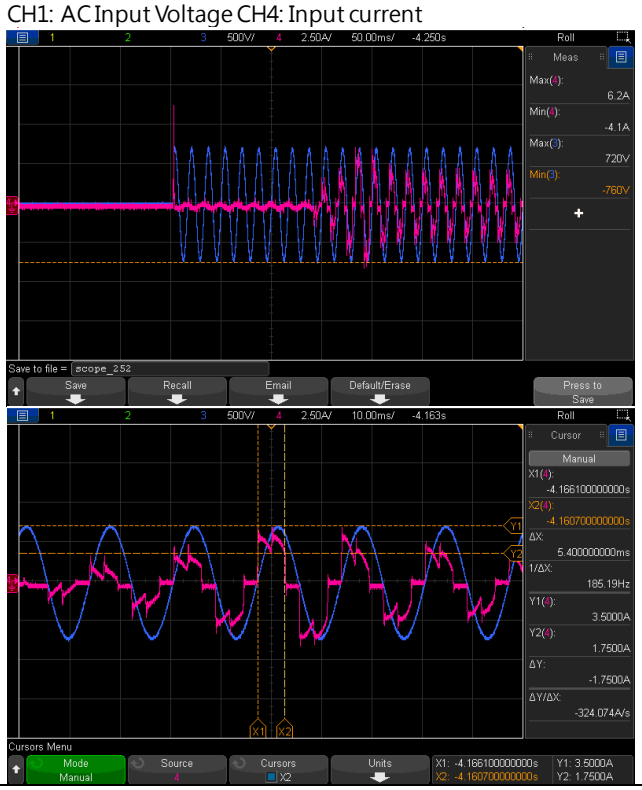
INPUT FUNCTION TEST

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℃	(1) 295.76Vac~600Vac/ FULL LOAD Dual phase DC Input： (2) 411.5 Vdc~800Vdc/FULL LOAD
			I/P: LOW-LINE-3V=317V HIGH-LINE+10V=610V 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	322.05Vac~600Vac/ FULL LOAD 321.33Vac~600Vac/ 90% LOAD 321.33Vac~600Vac/ 85% LOAD 320.58Vac~600Vac/ 80% LOAD
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P: 320VAC~ 600VAC O/P:FULL~MIN LOAD Ta:25℃	TEST: OK
3	INPUT CURRENT (Typ.)	400V/ 2A 500V/ 1.4A	I/P： 400 VAC I/P： 500 VAC O/P：FULL LOAD	TEST： 400VAC 500VAC L1 1.5253A 1.2327A

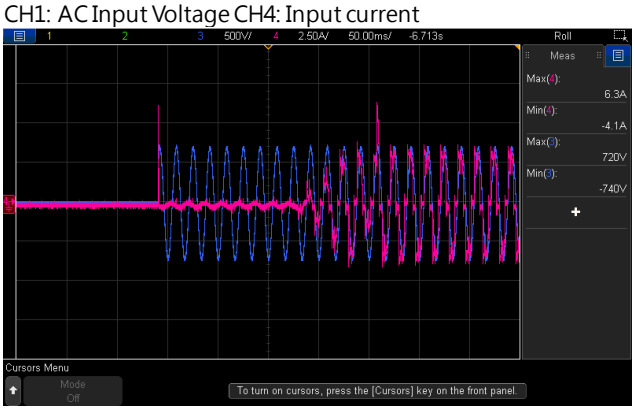
<table>
<tr><td></td><td></td><td></td><td>Ta：25℃</td><td><table><tr><td>L2</td><td>1.5251A</td><td>1.2318A</td></tr><tr><td>L3</td><td>1.5260A</td><td>1.2328A</td></tr></table></td></tr>
<tr><td>4</td><td>LEAKAGE CURRENT</td><td>< 3.5mA / 530 VAC</td><td>I/P： 530 VAC/60Hz
O/P：Min LOAD
Ta：25℃</td><td>L1,L2,L3-FG：
1.174mA(Peak)→62368</td></tr>
<tr><td>5</td><td>NO LOAD CONSUMPTION</td><td>Remote Power OFF:
3.1W/400Vac
Remote Power ON:
6.5W/400Vac</td><td>I/P： 400 VAC
O/P：NO LOAD
Ta：25℃</td><td>2.326W/400Vac→ Remote Power OFF
4.0318W/400Vac→ Remote Power ON</td></tr>
<tr><td>6</td><td>POWER FACTOR (Typ.)</td><td>PF=0.92 /400VAC
PF=0.92 /500VAC</td><td>I/P： 400 VAC
I/P： 500 VAC
O/P：FULL LOAD
Ta：25℃</td><td>TEST：<table><tr><td></td><td>400VAC</td><td>500VAC</td></tr><tr><td>L1</td><td>0.938</td><td>0.931</td></tr><tr><td>L2</td><td>0.9388</td><td>0.9311</td></tr><tr><td>L3</td><td>0.9387</td><td>0.9309</td></tr></table></td></tr>
<tr><td></td><td colspan="4">P.F vs LOAD
 
</td></tr>
<tr><td>7</td><td>EFFICIENCY(Typ.)</td><td>95.5%</td><td>I/P: 400 VAC
O/P:FULL LOAD
Ta:25℃</td><td>96.61%</td></tr>
<tr><td></td><td colspan="4">EFFICIENCY vs LOAD
 
</td></tr>
</table>

8	INRUSH CURRENT(Typ.)	500V/10A COLD START	I/P： 500 VAC O/P：FULL LOAD/PEAK LOAD Ta：25℃	I =6.20A/ 500VAC@ FULL LOAD I =6.30A/ 500VAC@ PEAK LOAD T50= 5400us/500V@ FULL LOAD

INPUT=500VAC/50HZ @ FULL LOAD
CH1: AC Input Voltage CH4: Input current



INPUT=500VAC/50HZ @ PEAK LOAD
CH1: 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: 105%~200% rated output power for more than 5 sec then constant current limiting without shutdown at rate current when Vo=30%~100% Hiccup mode when Vo<30% rated voltage	I/P: 600VAC I/P: 400VAC I/P: 320VAC O/P:TESTING Ta:25℃	113.01%/600VAC 113.38%/400VAC 113.95%/320VAC Protection type: 105%~200% rated output power for more than 5 sec then constant current limiting without shutdown at rate current when Vo=30%~100% Hiccup mode when Vo<30% rated 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℃	47.30V/ 600VAC 47.20V/ 320VAC Protection type: Shut down o/p voltage, re-power on to recover

3	OVER TEMPERATURE PROTECTION	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down.	I/P: 600VAC I/P: 320VAC O/P:FULL LOAD	TEST: OK Protection type: Shut down o/p voltage, recovers automatically after temperature goes down.
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℃	NO DAMAGE OK Protection type: Hiccup mode when Vo<30% rated voltage
5	Protection Against Reverse Voltages from the Load	Prevent PSU damage from Back Electro magnetic Force during deceleration of motor or inductive load	I/P: 400VAC O/P:TESTING Ta:25℃	TEST : OK

CONTROL FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	DC OK RELAY CONTACT	Relay Contact Ratings (max.): 30Vdc/1A, 30Vac/0.5A resistive load	I/P:400VAC O/P:FULL LOAD Ta:25℃	TEST: OK
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℃	TEST: OK
3	PARALLEL	Up to 3840W (3+1), please refer to Function Manual for more details	I/P: TESTING O/P: TESTING LOAD Ta:25℃	TEST: OK

COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	
1	PWM Transistor (D to S) or (C to E) Peak Voltage	Q2/Q3 Rated: 650V/68A	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/	Q3 VDS: (1) 460V (2) 553V (3) 464V (4) 464V (5) 460V (6) 448V (7) 520V (8) 508V	Q2 VDS: (1) 478V (2) 546V (3) 470V (4) 470V (5) 470V (6) 470V (7) 530V (8) 541V

			Min. Load 90%Duty/5KHz (6) Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz (7)0%→400% Load. (8) Peak Load Ta:25℃		
2	P.F.C Transistor (D to S) or (C to E) Peak Voltage	Q1/Q4 Rated: 1200V/36A	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℃	Q1 VDS: (1) 679V (2) 746V (3) 686V (4) 746V (5) 716V (6) 734V (7) 722V (8) 716V	Q4 VDS: (1) 941V (2) 841V (3) 977V (4) 953V (5) 969V (6) 950V (7) 969V (8) 926V
3	P.F.C DIODE	D1 Rated： 1200 V/5A	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℃	(1) 983V (2) 983V (3) 951V (4) 967V (5) 983V	
4	Diode Peak Voltage	Q100/Q107/Q110/Q113 Rated: 60V/175A	AC ON/OFF I/P: High-Line +3V =603 V VO=Vomax 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	Q100: VO=Vomax VDS: (1) 46.4V (2) 44.8V (3) 44.8V (4) 44.8V (5) 44.8V (6) 45.2V (7) 44.8V (8) 44.8V (9) 44.0V (10) 44.4V VO=Vnormal (1) 38.3V Q110:	Q107: VO=Vomax VDS: (1) 46.8V (2) 44.4V (3) 44.8V (4) 44.8V (5) 44.4V (6) 44.8V (7) 44.8V (8) 44.4V (9) 44.8V (10) 44.8V VO=Vnormal (1) 38.7V Q113:

			VO=Vnormal O/P: (1) Full Load Ta:25℃	VO=Vomax VDS: (1) 45.2V (2) 44.4V (3) 44.8V (4) 44.8V (5) 44.8V (6) 45.2V (7) 44.8V (8) 44.8V (9) 44.8V (10) 45.2V VO=Vnormal (1) 39.6V	VO=Vomax VDS: (1) 44.0V (2) 44.0V (3) 44.4V (4) 44.0V (5) 44.0V (6) 44.4V (7) 44.4V (8) 44.4V (9) 44.4V (10) 44.4V VO=Vnormal (1) 38.3V
5	Input Capacitor Voltage	C5 Rated: 220u/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℃	(1) 405V (2) 413V (3) 421V (4) 405V (5) 409V (6) 413V	
6	Control IC Voltage Test	PWM IC U2 Rated：8.9V~15.5V PFC IC U1 Rated：11.4V~20V IC U4 Rated：4.5V~ 20V IC U903 Rated:3V~ 18V O/P IC U100 Rated：4.3V ~35V IC U101/U102 Rated：8V~ 15V IC U104 Rated：3V ~30V IC U105 Rated：3.3V~36V IC U103 Rated：3V~32V	AC ON/OFF I/P: High-Line +3V =603V O/P:(1) Full Load (2) Output Short (3) O.L.P (4) O.V.P. (5) No Load VR min (Low Line) Ta:25℃	U2 (1) 14.2V (2) 14.2V (3) 14.2V (4) 14.2V (5) 14.1V U1/U4 (1) 15.4V (2) 15.6V (3) 15.8V (4) 15.3V (5) 15.4V U903 (1) 15.6V (2) 15.8V (3) 15.7V (4) 15.3V (5) 15.4V	U100/U101/ U102/U104/ U105 (1) 11.7V (2) 12.9V (3) 11.7V (4) 11.7V (5) 11.7V U103 (1) 12.5V (2) 12.7V (3) 12.7V (4) 12.5V (5) 12.4V

■ 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℃	I/P-O/P: 10.85 mA I/P-FG: 12.09 mA O/P-FG: 3.70 mA O/P-DC OK: 0.007 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℃	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℃	6mΩ

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℃	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℃	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℃	PASS Test by certified Lab
4	E.S.D	BS EN/EN61000-4-2 Din rail Model : AIR : 15KV / Contact : 8KV	I/P : 400 VAC/50HZ O/P : FULL LOAD Ta : 25℃	CRITERIA A
5	E.F.T	BS EN/EN61000-4-4 INDUSTRY INPUT : 4KV	I/P : 400 VAC/50HZ O/P : FULL LOAD Ta : 25℃	CRITERIA A
6	SURGE	BS EN/EN61000-4-5 INDUSTRY Line-Line : 2KV Line-Earth : 4KV	I/P : 400 VAC/50HZ O/P : FULL LOAD Ta : 25℃	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-960-24 1. ROOM AMBIENT BURN-IN： 2 HRS I/P： 400VAC O/P： FULL LOAD Ta= 28.6 ℃ 2. HIGH AMBIENT BURN-IN： 2 HRS I/P： 400VAC O/P： FULL LOAD Ta= 58.8 ℃		

NO	Position	ROOM AMBIENT Ta= 28.6℃	HIGH AMBIENT Ta= 58.8℃
1	C930	54.3℃	88.7℃
2	C8	49.5℃	84.5℃
3	C7	49.4℃	84.9℃
4	RTH2	69.4℃	104.2℃
5	U101	69.1℃	104.2℃
6	R10	75.8℃	108.7℃
7	C11	60.2℃	95.9℃
8	U903	68.7℃	103.4℃
9	C115	64.3℃	99.4℃
10	C113	63.9℃	99.5℃
11	C116	68.1℃	103.2℃
12	C305	55.8℃	90.5℃
13	C302	55.1℃	88.6℃
14	ZNR3	51℃	86.3℃
15	C1	54.5℃	88.8℃
16	L1	69.7℃	105.2℃
17	C120	58.4℃	90.9℃
18	Q115	72.7℃	107.7℃
19	U100	68.8℃	102.8℃
20	Q107	70.5℃	105.3℃
21	U900	77.2℃	112.4℃
22	Q300	76.8℃	109.9℃
23	U2	57.7℃	94.8℃
24	LF100	74.1℃	109℃
25	BD1	77.5℃	109.4℃
26	T3	68.4℃	102.9℃
27	T200	51.4℃	86.4℃
28	T1 Core	75.8℃	111.3℃
29	T1 Coil	72.9℃	109.7℃
30	R947	50.8℃	85.9℃
31	Q23	65.5℃	100.5℃
32	U4	63.7℃	99.4℃
33	J102	71.5℃	105.9℃

NO	Position	ROOM AMBIENT Ta= 28.6℃	HIGH AMBIENT Ta= 58.8℃
34	Q1	60.5℃	94.4℃
35	Q4	60.6℃	94.3℃
36	D2	58.1℃	91.9℃
37	T2	71.2℃	108℃
38	LF2	63.5℃	99.5℃
39	L6	62.4℃	100.7℃
40	L5	63.2℃	99.9℃
41	Q3	58.2℃	92.8℃
42	Q2	60.5℃	94.7℃
43	LF1	72.6℃	107.2℃
44	Q106	71.7℃	107.3℃
45	U1	57.5℃	91.6℃
46	Q7	54.9℃	88.3℃
47	Q24	64.4℃	98.8℃
48	Q11	63.9℃	97.5℃
49	U10	47.2℃	81.2℃
50	RY1	59.4℃	93.8℃
51	U104	57.3℃	90.9℃
52	D901	65.1℃	99.5℃

2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)	I/P： 400 VAC O/P：112.4% LOAD Ta：25℃	TEST：OK
3	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P： 600VAC/320VAC O/P： 100% LOAD Ta= -35 ℃	TEST：OK
4	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 60 ℃/95 %R.H NO DAMAGE	I/P： 600 VAC O/P：FULL LOAD Ta= 60℃ HUMIDITY= 95 %R.H	TEST：OK
5	TEMPERATURE COEFFICIENT	± 0.03 %/℃(0~60℃)	I/P： 400 VAC O/P：FULL LOAD	± 0.015 %/℃(0~60℃)
6	STORAGE TEMPERATURE TEST	-40~85℃	1. Thermal shock Temperature： -45℃~ +90℃ 2. Temperature change rate ：25℃ / 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	-30~60℃	1. Thermal shock Temperature： -35℃~ +65℃ 2. Temperature change rate ：25℃ / 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℃
9	CAPACITOR LIFE CYCLE	SUPPOSE C115 IS THE MOST CRITICAL COMPONENT (1) I/P : 400VAC O/P : FULL LOAD Ta= 28.6 ℃ LIFE TIME (2) I/P : 400VAC O/P : FULL LOAD Ta= 59.1 ℃ LIFE TIME (3) I/P : 400VAC O/P : 75% LOAD Ta= 59.7 ℃ LIFE TIME (4) I/P : 400VAC O/P : 50% LOAD Ta= 60.5 ℃ LIFE TIME	(1) 265623.9 HRS (2) 22836 HRS (3) 65806.3 HRS (4) 121011.4 HRS
10	MTBF	Conducted by Parts Stress Analysis Prediction 936.0K hrs min. Telcordia SR-332 (Bellcore) ; 117.5K hrs min. MIL-HDBK-217F (25℃)	
11	Ongoing Reliability Test	I/P : 400VAC O/P : FULL LOAD TA=50℃ Demonstration Mean Time Between Failure : 50,000 hours	

TEST RESULT	TESTER	REVIEW	APPROVAL
PASS	YUWEI	LIUTT	WANGZD

2020.10.1 TAG-QA-009