Test Report: NSP-750-15

750W AC/DC High Reliable Multi-Industries Encolsed Type 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

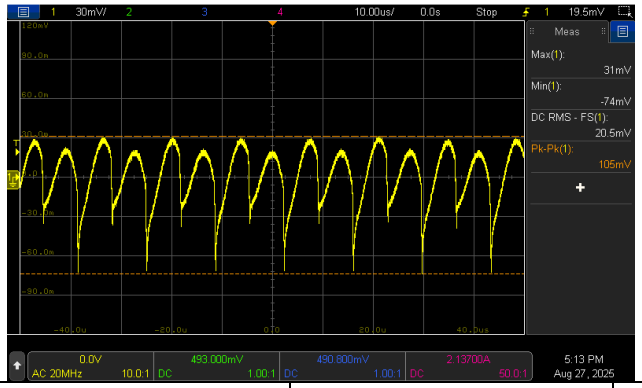
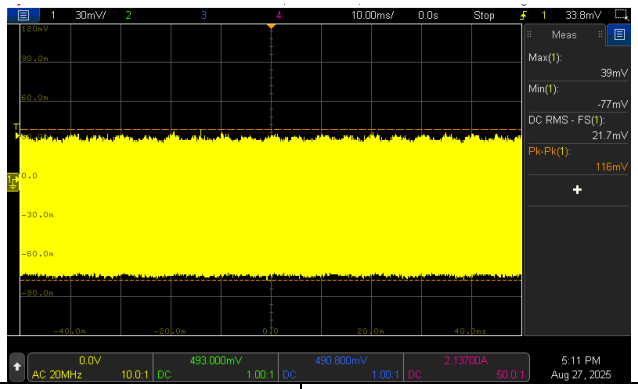
Safety Test
E.M.C. Test

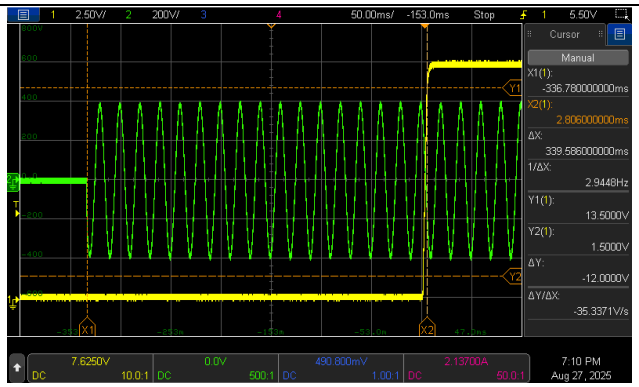
■ RELIABILITY TEST

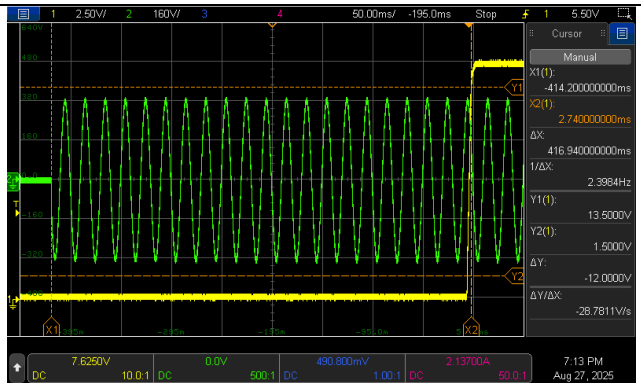
ENVIRONMENT TEST

■ DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

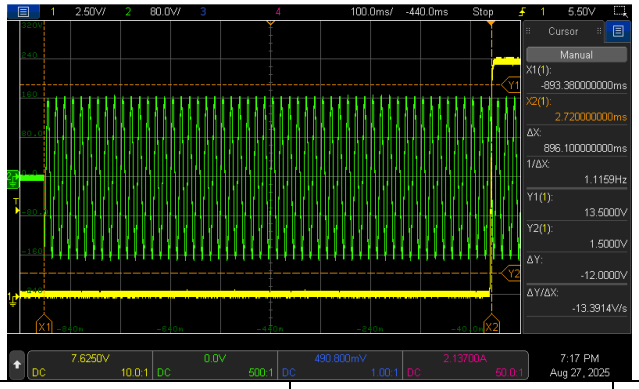
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT VOLTAGE ADJUST RANGE	CH1: 15V~19V	I/P： 277 VAC I/P： 230 VAC I/P： 115 VAC O/P：MIN LOAD Ta：25℃	14.718V~19.772V/277VAC 14.718V~19.771V/230VAC 14.72V~19.771V/115VAC
2	OUTPUT VOLTAGE TOLERANCE	V1: -1% ~ +1%	I/P: 85VAC~305VAC O/P:FULL~MIN. LOAD Ta:25℃	V1: -0.04% ~0.06 %
3	LINE REGULATION	V1: -0.5% ~ +0.5%	I/P: 85VAC~ 305VAC O/P:FULL LOAD Ta:25℃	V1: 0% ~0.014 %
4	LOAD REGULATION	V1: -0.5% ~ +0.5%	I/P: 230VAC O/P:FULL ~MIN LOAD Ta:25℃	V1: -0.04% ~0.06 %
5	OVER/UNDERSHOOT TEST	<± 5%	I/P: 230VAC O/P:FULL LOAD / NO LOAD/ PEAK LOAD Ta:25℃	2.0%
6	RIPPLE & NOISE (Max)	**V1:** 200mVp-p	I/P:230VAC O/P:FULL LOAD Ta:25℃	105mVp-p / high frequency 116mVp-p / low frequency
	high frequency : 		low frequency : 	
7	SET UP TIME(Max)	277VAC/900ms 230VAC/1000ms 115VAC/1500ms	I/P： 277 VAC I/P： 230 VAC I/P： 115 VAC O/P：FULL LOAD Ta：25℃	277VAC/339.586ms 230VAC/416.94ms 115VAC/896.1ms
	INPUT=277VAC/50HZ @ FULL LOAD CH1: Output Voltage CH2: AC Input Voltage		INPUT=230VAC/50HZ @ FULL LOAD CH1: Output Voltage CH2: AC Input Voltage	





INPUT=115VAC/60HZ @ FULL LOAD

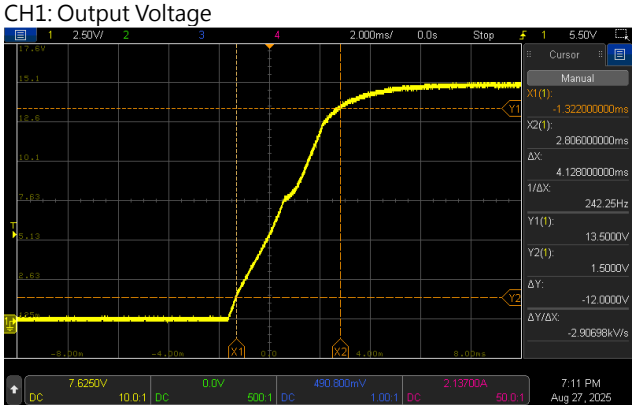
CH1: Output Voltage CH2: AC Input Voltage



8	RISE TIME (Max)	277VAC/80ms 230VAC/80ms 115VAC/80ms	I/P： 277 VAC I/P： 230 VAC I/P： 115 VAC O/P：FULL LOAD Ta：25℃	277VAC/4.128ms 230VAC/4.066ms 115VAC/4.08ms

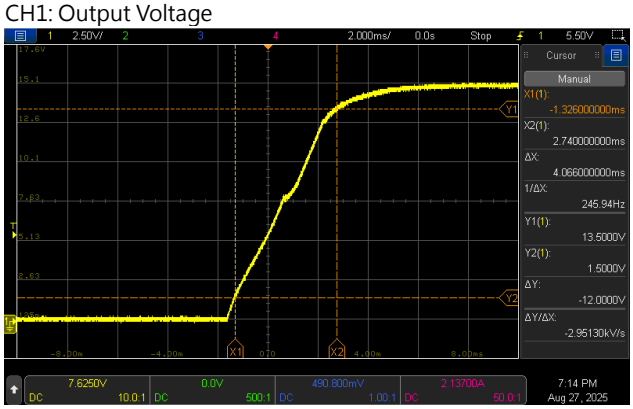
INPUT=277VAC/50HZ @ FULL LOAD

CH1: Output Voltage



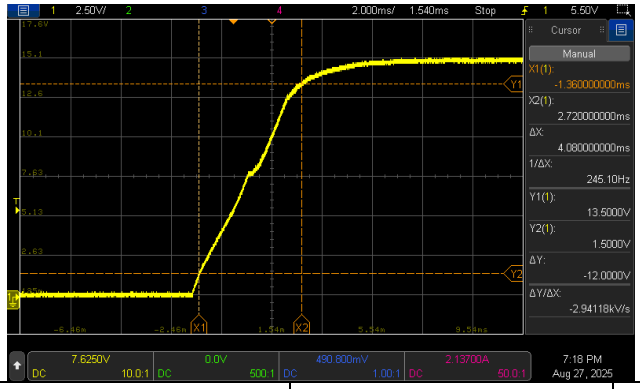
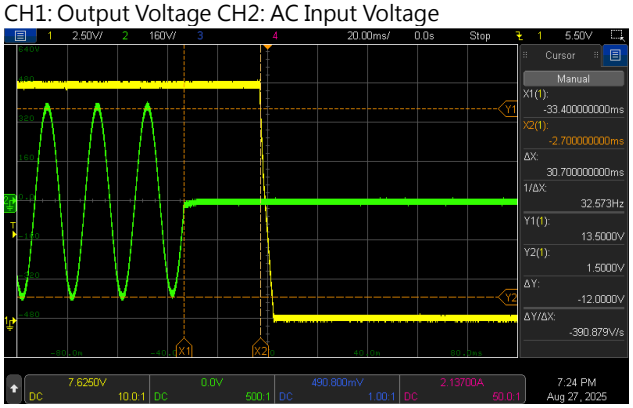
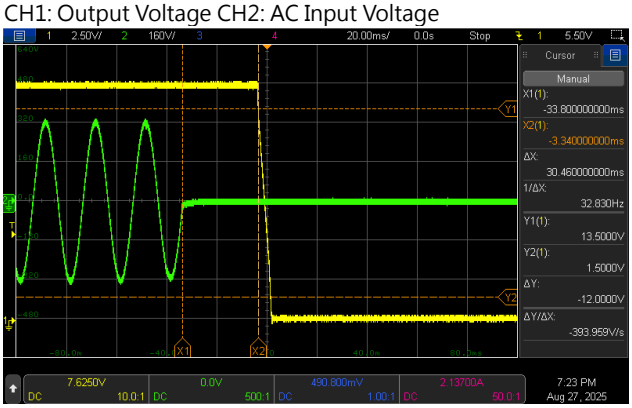
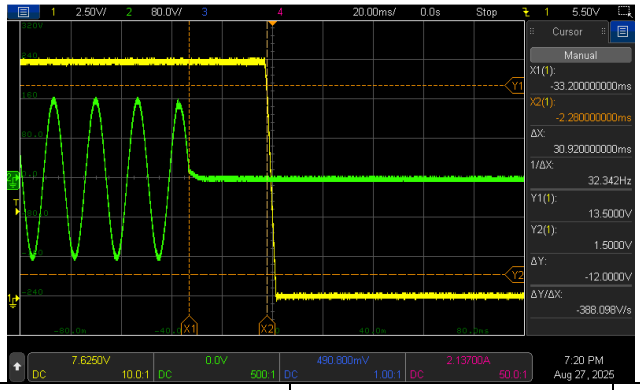
INPUT=230VAC/50HZ @ FULL LOAD

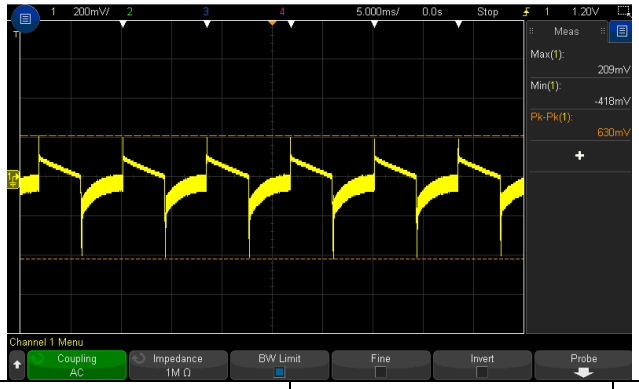
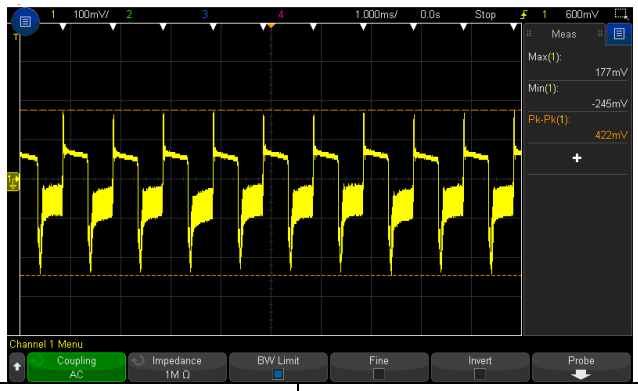
CH1: Output Voltage



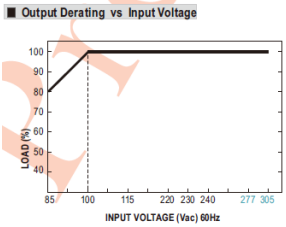
INPUT=115VAC/60HZ @ FULL LOAD

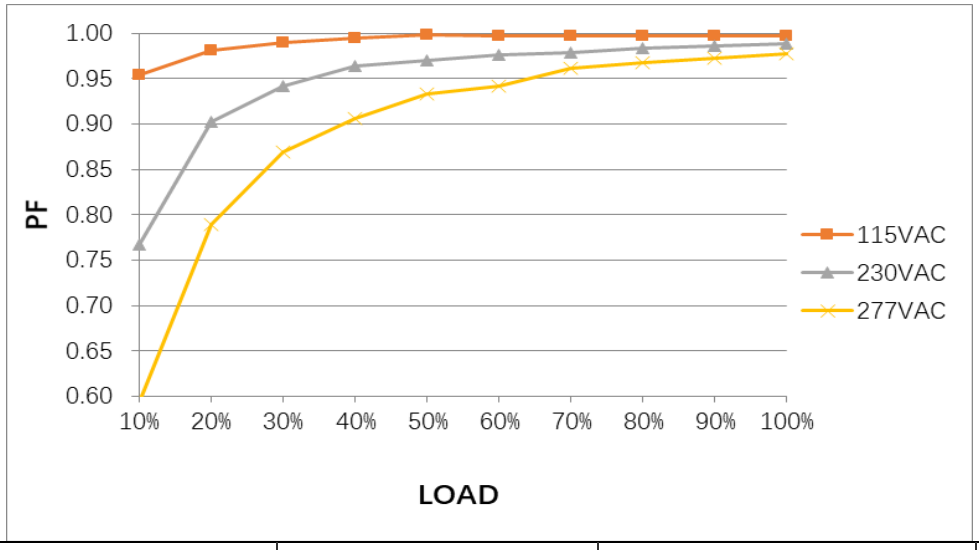
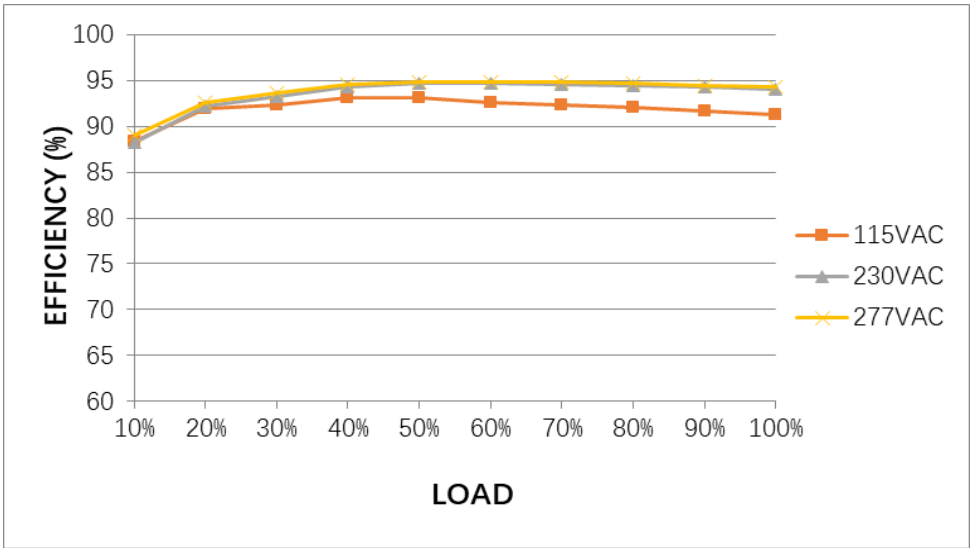
CH1: Output Voltage

<table>
<tr><td></td><td colspan="4">  </td></tr>
<tr><td>9</td><td>HOLD UP TIME (Typ.)</td><td>277VAC/16ms
230VAC/16ms
115VAC/16ms</td><td>I/P： 277 VAC
I/P： 230 VAC
I/P： 115 VAC
O/P：FULL LOAD
Ta：25℃</td><td>277VAC/30.7ms
230VAC/30.46ms
115VAC/30.92ms</td></tr>
<tr><td></td><td colspan="4">INPUT=277VAC/50HZ @ FULL LOAD
CH1: Output Voltage CH2: AC Input Voltage
 
INPUT=230VAC/50HZ @ FULL LOAD
CH1: Output Voltage CH2: AC Input Voltage
 
INPUT=115VAC/60HZ @ FULL LOAD
CH1: Output Voltage CH2: AC Input Voltage
  </td></tr>
<tr><td>10</td><td>DYNAMIC LOAD</td><td>V1:1500 mVp-p</td><td>I/P: 230VAC
O/P:
(1) FULL/ MIN LOAD 50%DUTY / 120HZ
(2) FULL/ MIN LOAD 50%DUTY / 1KHZ
Ta:25℃</td><td>630mVp-p
422mVp-p</td></tr>
</table>

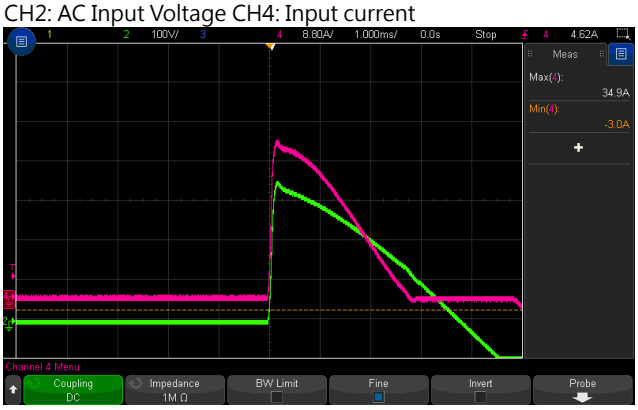
	FULL / MIN LOAD 50%DUTY / 120HZ 		FULL / MIN LOAD 50%DUTY / 1KHZ 	
11	TRANSIENT RECOVERY TIME	V1: 1500mVp-p <500us	I/P: 230VAC O/P:40% LOAD CHANGE 50%DUTY/120HZ	256mVp-p

INPUT FUNCTION TEST

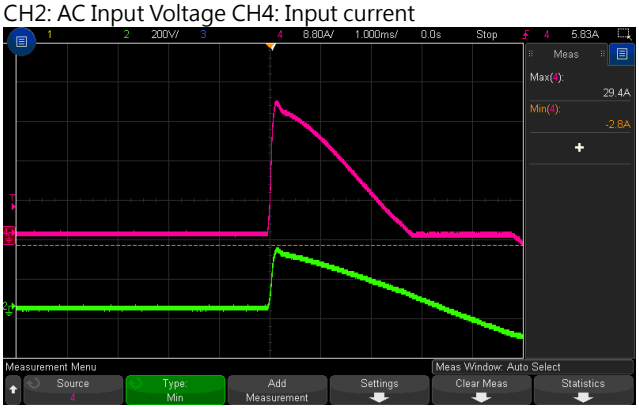
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	85VAC~305VAC 120VDC~ 431VDC 	(1) I/P: TESTING O/P: FULL / 80% LOAD (2) I/P: DC TESTING (L: + N: -) O/P: FULL / 80% LOAD (3) I/P: DC TESTING (L: - N: +) O/P: FULL / 80% LOAD Ta:25℃	(1) 80V~305V/ FULL LOAD 80V~305V/ 80% LOAD (2) 108.5Vdc~431Vdc/FULL LOAD 108.1Vdc~431Vdc/80% LOAD (3) 108.2Vdc~431Vdc/FULL LOAD 108Vdc~431Vdc/80% LOAD
			I/P: HIGH-LINE+10V=315V 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: 85VAC~ 305VAC O/P:FULL~MIN LOAD Ta:25℃	TEST: OK
3	INPUT CURRENT (Typ.)	277V/ 3.2 A 230V/ 3.9 A 115V/ 8.2 A	I/P： 277 VAC I/P： 230 VAC I/P： 115 VAC O/P：FULL LOAD Ta：25℃	I =2.938A/ 277VAC I =3.522A/ 230VAC I =7.288A/ 115VAC
4	LEAKAGE CURRENT	Earth leakage current < 350uA (rms)@277Vac touch current<100uA(rms) @ 277Vac	I/P： 277 VAC/60HZ O/P：Min LOAD Ta：25℃	For Earth: 210.3uA For touch: 28.5uA
5	NO LOAD CONSUMPTION	Remote Power OFF: 0.75W/115Vac 0.75W/230Vac 1W/277Vac	I/P：115VAC I/P：230VAC I/P：277VAC O/P：NO LOAD	TEST: Remote Power OFF / Remote Power ON

		Remote Power ON: 5W/115Vac 5W/230Vac 5W/277Vac	Ta：25℃	115VAC 0.356W 3.66W 230VAC 0.488W 3.508W 277VAC 0.576W 3.356W
6	POWER FACTOR (Typ.)	0.90/ 277VAC 0.93/ 230VAC 0.98/115VAC	I/P： 277 VAC I/P： 230 VAC I/P： 115 VAC O/P：FULL LOAD Ta：25℃	PF=0.9796/277VAC PF=0.9881/230VAC PF=0.9972/115VAC
	P.F vs LOAD 			
7	EFFICIENCY(Typ.)	92%	I/P:230 VAC O/P:FULL LOAD Ta:25℃	94.14%
	EFFICIENCY vs LOAD 			
8	INRUSH CURRENT(Typ.)	277V/50A 230V/40A 115V/20A COLD START	I/P： 277 VAC I/P： 230 VAC I/P： 115 VAC O/P：FULL LOAD Ta：25℃	I =34.9A/ 277VAC I =29.4A/ 230VAC I =16.7A/ 115VAC T50= 1530us/230V

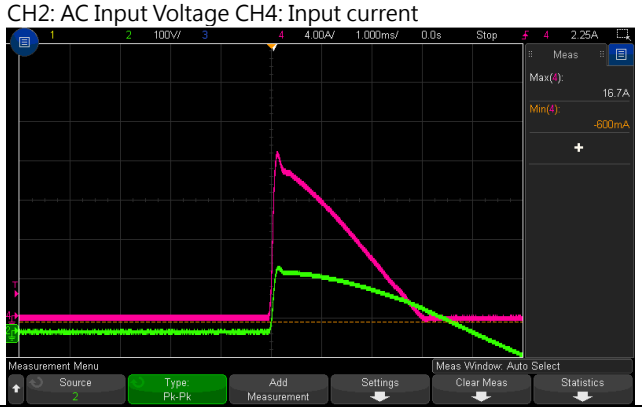
INPUT=277VAC/50HZ @ FULL LOAD
CH2: AC Input Voltage CH4: Input current



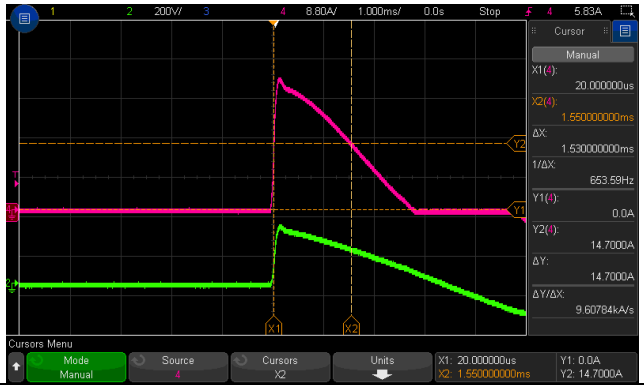
INPUT=230VAC/50HZ @ FULL LOAD
CH2: AC Input Voltage CH4: Input current



INPUT=115VAC/ 60HZ @ FULL LOAD
CH2: AC Input Voltage CH4: Input current



T50@230VAC:



PROTECTION FUNCTION TEST

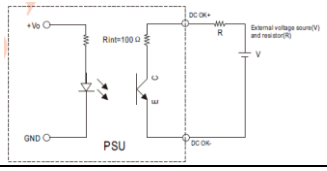
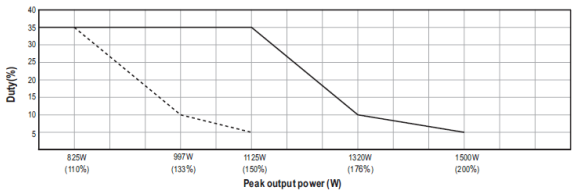
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER LOAD PROTECTION	Protection type: Normally works within 105 ~ 200% rated output power for more than 5 seconds and then constant current limiting without shutdown(Vout>30%), recovers automatically after fault condition is removed, or shut down o/p voltage when Vout<30%, AC re-power on to recover. Protection type: >200% rated power, constant current limiting (Vout>30%)with auto-recovery after fault condition is removed, or shut down o/p voltage when Vout<30%,AC re-power on to recover.	I/P: 305VAC I/P: 230VAC I/P:180VAC I/P: 100VAC O/P:TESTING Ta:25℃	TEST： 125.86%/305VAC, 125.9%/230VAC, 125.84%/100VAC Protection type: Normally works within 105 ~ 200% rated output power for more than 5 seconds and then constant current limiting without shutdown(Vout>30%), recovers automatically after fault condition is removed, or shut down o/p voltage when Vout<30%, AC re-power on to recover 215 %/305VAC 213.6 %/180VAC 204 %/100VAC Protection type:

				>200% rated power, constant current limiting (Vout>30%)with auto-recovery after fault condition is removed, or shut down o/p voltage when Vout<30%,AC re-power on to recover.
2	OVER VOLTAGE PROTECTION	20V~ 25V Protection type: Shut down o/p voltage, AC re-power on to recover	I/P: 305VAC I/P: 85VAC O/P:MIN LOAD Ta:25℃	22.8V/ 305VAC 22.8V/ 85VAC PROTECTION TYPE： Shut down o/p voltage, AC re-power on to recover
3	OVER TEMPERATURE PROTECTION	Protection type: Shut down o/p voltage, recovery automatically after temperature goes down	I/P: 305VAC I/P: 85VAC O/P:FULL LOAD	TEST： OK O.T.P. Active Protection type: Shut down o/p voltage, recovery automatically after temperature goes down
4	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE Protection type: Constant current limiting for more than 5 seconds (Vout<30%) and then shut down o/p voltage, AC re-power on to recover or Hiccup mode ,recovery automatically after fault conditon is removed. Depends on the user's wire impedance	I/P: 305VAC I/P: 85VAC O/P:FULL LOAD	NO DAMAGE PROTECTION TYPE： Constant current limiting for more than 5 seconds (Vout<30%) and then shut down o/p voltage, AC re-power on to recover or Hiccup mode ,recovery automatically after fault conditon is removed. Depends on the user's wire impedance

CONTROL FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	AUXILIARY POWER (AUX)	1. 5Vaux @ 0.2A, Tolerance -15% ~ +15% at main output 20% rated current; 2. 12Vaux @ 0.8A, Tolerance -15% ~ +15% at main output 20% rated current. I/P: 230 VAC O/P:20% LOAD Ta:25℃ Test Result：		

AUX	TOLERANCE	RIPPLE
5V / 0.2A	-1.048% ~ 0%	14mVp-p
12V / 0.8A	-0.759% ~0%	19mVp-p

2	REMOTE CONTROL	Power ON: Short between Pin11 & Pin13 on CN1 Power OFF: open between Pin11 & Pin13 on CN1	I/P:230VAC O/P:FULL LOAD Ta:25℃	TEST: OK
3	REMOTE SENSE	S+ / S- The remote sensing compensates voltage drop on the load wiring up to 0.3V	I/P: 230 VAC O/P:FULL LOAD Ta:25℃	TEST: OK
4	DC OK SIGNAL	15Vdc/10mA resistive load  	I/P:230VAC O/P:FULL LOAD Ta:25℃	TEST: (1) OK (2) 44.8 dB Ta:25℃
5	FAN CONTROL	(1)Fan ON/OFF control: RTH3≥ 50℃±10℃ FAN ON RTH3≤ 40℃±10℃ FAN OFF	I/P:230VAC O/P:TESTING	TEST: (1) ok Ta:25℃
5	PEAK Power	I/P: 100/305VAC O/P:  --- --- --- 100VAC ———200VAC		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: 600V/40A	AC ON/OFF I/P: High-Line +3V =308V VDS: O/P: (1)Full Load 50/2.5 (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/	Q2 VDS: (1) 506V (2) 522V (3) 510V (4) 506V (5) 510V (6) 510V (7) 522V (8) 506V	Q3 VDS: (1) 477V (2) 497V (3) 481V (4) 481V (5) 481V (6) 477V (7) 469V (8) 477V

			Min. Load 50%Duty/120Hz (7)0%→400% Load.200/25 (8) Peak Load 100/5 Ta:25℃		
2	P.F.C Transistor (D to S) or (C to E) Peak Voltage	Q1 : Rated: 650V/46A	AC ON/OFF I/P: High-Line +3V =308V 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) 557V (2) 557V (3) 561V (4) 557V (5) 557V (6) 561V (7) 557V (8) 561V	
3	P.F.C DIODE	D5: Rated: 20A/650V	I/P: High-Line +3V =308 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) 479V (2) 483V (3) 479V (4) 483V (5) 479V	
4	Diode Peak Voltage	Q100 / Q104: Rated: 80V/230A	AC ON/OFF I/P: High-Line +3V =308 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) Peak Load VO=Vnormal O/P: (1) Full Load Ta:25℃	Q100: VO=Vomax VDS: (1) 55.3V (2) 54.9V (3) 61.9V (4) 61.2V (5) 59.6V (6) 59.2V (7) 51.1V (8) 52.8V (9) 62.4V VO=Vnormal (1) 46.1V	Q104: VO=Vomax VDS: (1) 58.4V (2) 56.0V (3) 62.4V (4) 62.4V (5) 60.0V (6) 63.6V (7) 58.0V (8) 52.8V (9) 57.6V VO=Vnormal (1) 48.7V

5	Input Capacitor Voltage	C5 : Rated: 120μ /450V	I/P: High-Line +3V =308V 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) 437V (2) 437V (3) 441V (4) 437V (5) 441V (6) 441V
6	Control IC Voltage Test	PWM IC U1 : Rated : 12.5V~ 27.9V PFC IC U2: Rated: 12.9V~25V IC U9: Rated: 3.1V~17V O/P IC U101: Rated: 4.75V~38V IC U103: Rated : 3~30 V IC U104 : Rated : 3V ~30V AUX IC U7 : Rated : 8V~26.5V	AC ON/OFF I/P: High-Line +3V =308V 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℃	U1 U101/U103/U104 (1) 14.7V (1) 11.2V (2) 14.9V (2) 11.2V (3) 14.9V (3) 11.0V (4) 14.7V (4) 11.2V (5) 14.7V (5) 11.2V U2 U7 (1) 13.9V (1) 19.1V (2) 13.9V (2) 19.3V (3) 13.9V (3) 19.1V (4) 13.9V (4) 19.1V (5) 13.9V (5) 19.6V U9 (1) 13.9V (2) 13.9V (3) 13.9V (4) 13.9V (5) 13.9V

■ SAFETY& E.M.C. TEST

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P: 4.2 K VAC/min I/P-FG : 2.1 K VAC/min O/P-FG: 1.5 KVAC/min	I/P-O/P: 4.62 KVAC/min I/P-FG: 2.52 KVAC/min O/P-FG: 1.8 KVAC/min Ta:25℃	I/P-O/P: 2.47 mA I/P-FG: 2.82 mA O/P-FG: 1.77 m A NO DAMAGE
2	ISOLATION RESISTANCE	I/P-O/P: 500 VDC>100MΩ I/P-FG: 500 VDC>100MΩ O/P-FG: 500 VDC >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 < 100 mΩ	40A / 2min Ta:25℃	10 mΩ

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	HARMONIC	BS EN/EN61000-3-2 （IEC61000-3-2） ■ CLASS A	I/P:230VAC/50HZ O/P:FULL LOAD Ta:25℃	■ PASS
2	CONDUCTION	BS EN/EN55032(CISPR32), CNS 15936 CLASS B BS EN/EN55011（CISPR11） CLASS B	I/P：230 VAC (50HZ) O/P：FULL/50% LOAD Ta：25℃	PASS Test by certified Lab
3	RADIATION	BS EN/EN55032(CISPR32), CNS 15936 CLASS B BS EN/EN55011（CISPR11） CLASS B	I/P：230 VAC (50HZ) O/P：FULL LOAD Ta：25℃	PASS Test by certified Lab
4	E.S.D	BS EN/EN61000-4-2 AIR：15KV / Contact：8KV	I/P：230 VAC/50HZ O/P：FULL LOAD Ta：25℃	CRITERIA A
5	E.F.T	BS EN/EN61000-4-4 INPUT： 2KV	I/P：230 VAC/50HZ O/P：FULL LOAD Ta：25℃	CRITERIA A
6	SURGE	BS EN/EN 61000-4-5 L-N ：2KV L,N-PE：4KV	I/P： 230 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： NSP-750-12 1. ROOM AMBIENT BURN-IN： 2HRS I/P： 230VAC O/P： FULL LOAD Ta=25.8℃ 2. HIGH AMBIENT BURN-IN： 2HRS I/P： 230VAC O/P： FULL LOAD Ta=60.2℃		

NO	Position	ROOM AMBIENT Ta=25.8℃	HIGH AMBIENT Ta=60.2℃
1	ZNR1	34.9℃	71.7℃
2	LF1	33.7℃	70.1℃
3	LF2	29.7℃	66.0℃
4	C2	29.8℃	67.3℃
5	LF3	37.3℃	74.3℃

NO	Position	ROOM AMBIENT Ta=25.8℃	HIGH AMBIENT Ta=60.2℃
6	BD1	55.5℃	90.7℃
7	C16	34.8℃	71.7℃
8	RTH1	33.9℃	69.8℃
9	RY1	39.5℃	76.1℃
10	RTH4	45.3℃	81.2℃
11	Q1	47.1℃	83.4℃
12	D5	46.6℃	82.3℃
13	L1	49.3℃	85.1℃
14	C5	38.3℃	74.4℃
15	D6	41.6℃	77.5℃
16	C7	46.1℃	82.7℃
17	Q3	52.8℃	90.5℃
18	Q2	50.5℃	87.6℃
19	U1	52.1℃	87.5℃
20	Q5	43.5℃	79.9℃
21	T1COIL	73.3℃	110.2℃
22	T1CORE	57.0℃	92℃
23	C42	49.6℃	85.4℃
24	RTH5	65.8℃	104.2℃
25	C107	60.6℃	98.0℃
26	C105	57.5℃	94.9℃
27	C134	49.0℃	83.9℃
28	U100	65.2℃	101.8℃
29	R7	49.2℃	85.4℃
30	U2	48.5℃	85℃
31	U5	52.1℃	88.3℃
32	C97	52.7℃	89.1℃
33	D14	39.3℃	75.9℃
34	J101	59.9℃	96.1℃
35	U101	61.7℃	97.2℃
36	Q100	71.5℃	109.6℃
37	Q104	65.0℃	101.9℃
38	Q4	55.2℃	91.9℃
39	U7	43.3℃	79.4℃
40	C40	42.0℃	78.0℃
41	U110	48.8℃	84.3℃
42	U104	35.7℃	71.7℃
43	RTH3	41.1℃	76.7℃
44	PCB	51.4℃	85.8℃
45	T2	42.4℃	78.2℃
46	U111	38.8℃	74.9℃

2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)	I/P： 230 VAC O/P： 124.5%LOAD Ta：25℃	TEST：OK
3	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P： 305VAC/100VAC O/P： 80%/100 %LOAD Ta= -45℃/-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： 315VAC O/P：FULL LOAD Ta= 60℃ HUMIDITY= 95 %R.H	TEST：OK
5	TEMPERATURE COEFFICIENT	± 0.05%/℃(0~60℃)	I/P： 230 VAC O/P：FULL LOAD	± 0.002%/℃(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:230V/ FULL LOAD AC ON 3sec/AC OFF 1sec TEST 1cycle:230V/ 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 C107 IS THE MOST CRITICAL COMPONENT (1) I/P： 230VAC O/P：FULL LOAD Ta= 25℃ LIFE TIME (2) I/P： 230VAC O/P：FULL LOAD Ta= 60℃ LIFE TIME (3) I/P： 230VAC O/P：75% LOAD Ta= 60℃ LIFE TIME (4) I/P： 230VAC O/P：50% LOAD Ta= 60℃ LIFE TIME	(1) 3639402HRS (2) 45817HRS (3) 263651HRS (4) 814761HRS	
10	MTBF	Conducted by Parts Stress Analysis Prediction 1047.1K hrs min. Telcordia SR-332 (Bellcore) ; 137.4K hrs min. MIL-HDBK-217F (25℃)		
11	Ongoing Reliability Test	I/P：230VAC 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