Test Report: NSP-750-60

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

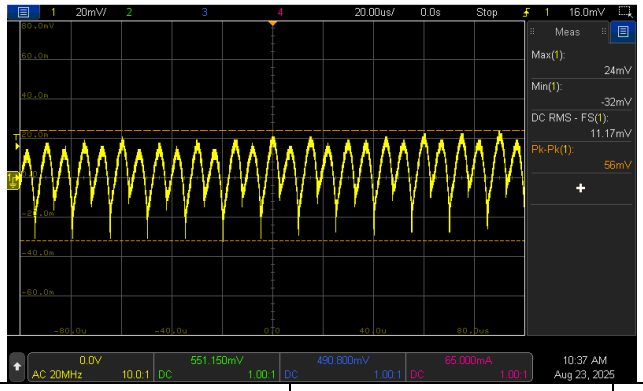
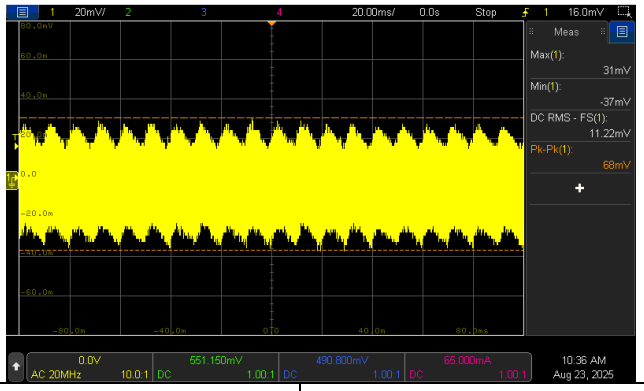
Safety Test
E.M.C. Test

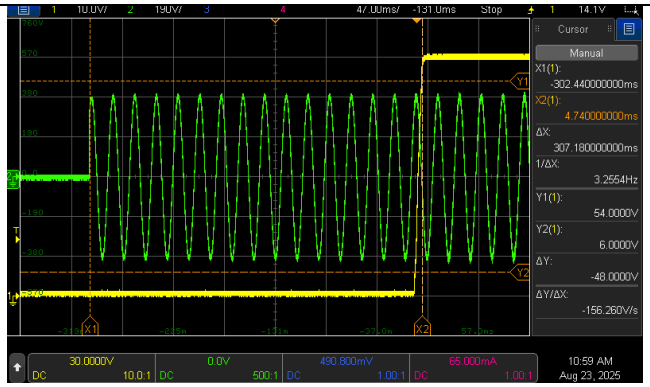
■ RELIABILITY TEST

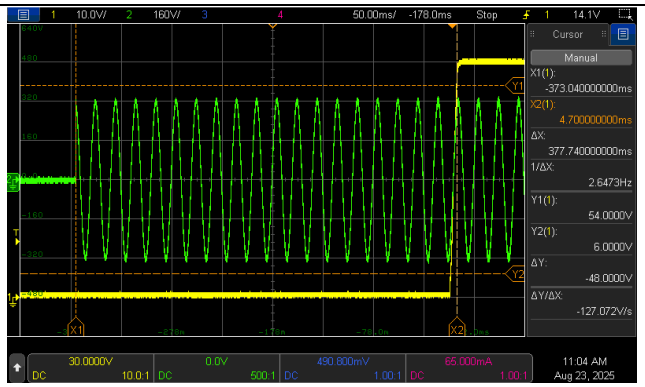
ENVIRONMENT TEST

■ DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

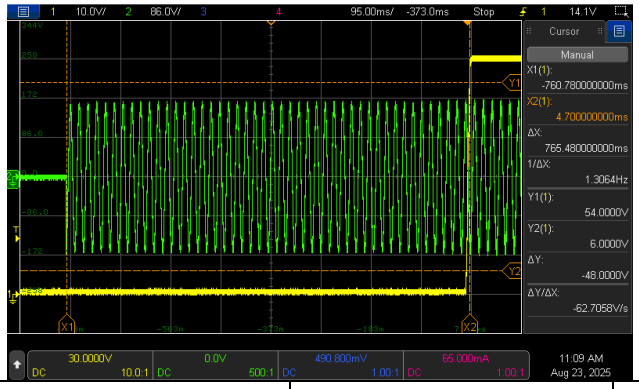
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT VOLTAGE ADJUST RANGE	CH1: 54V~72V	I/P： 277 VAC I/P： 230 VAC I/P： 115 VAC O/P：MIN LOAD Ta：25℃	52.42V~73.48V/277VAC 52.42V~73.49V/230VAC 52.42V~73.49V/115VAC
2	OUTPUT VOLTAGE TOLERANCE	V1: -1% ~ +1%	I/P: 85VAC~305VAC O/P:FULL~MIN. LOAD Ta:25℃	V1: -0.0167% ~ 0.0167%
3	LINE REGULATION	V1: -0.5% ~ +0.5%	I/P: 85VAC~ 305VAC O/P:FULL LOAD Ta:25℃	V1: 0% ~ 0.01%
4	LOAD REGULATION	V1: -0.5% ~ +0.5%	I/P: 230VAC O/P:FULL ~MIN LOAD Ta:25℃	V1: -0.0167% ~ 0.0167%
5	OVER/UNDERSHOOT TEST	<± 5%	I/P: 230VAC O/P:FULL LOAD / NO LOAD Ta:25℃	1.66%
6	RIPPLE & NOISE (Max)	V1: 300mVp-p	I/P:230VAC O/P:FULL LOAD Ta:25℃	56mVp-p / high frequency 68mVp-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/307.18ms 230VAC/377.74ms 115VAC/765.48ms
	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

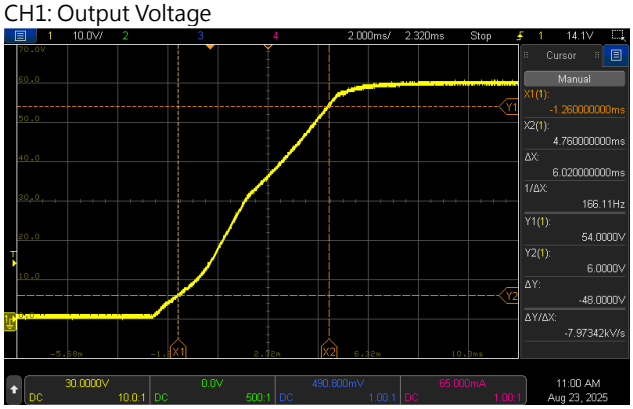
CH1: Output Voltage CH2: AC Input Voltage



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/6.02ms 230VAC/6.02ms 115VAC/6.02ms

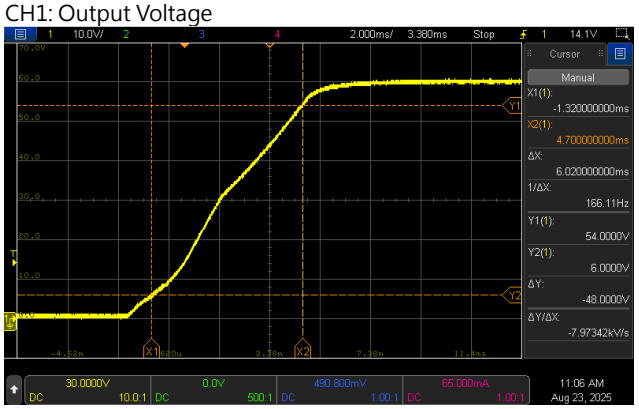
INPUT=277VAC/50HZ @ FULL LOAD

CH1: Output Voltage



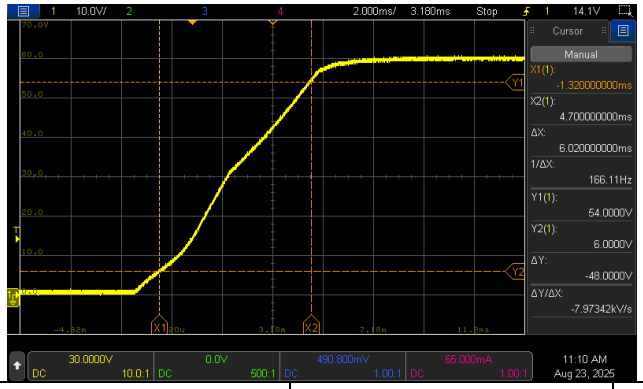
INPUT=230VAC/50HZ @ FULL LOAD

CH1: Output Voltage



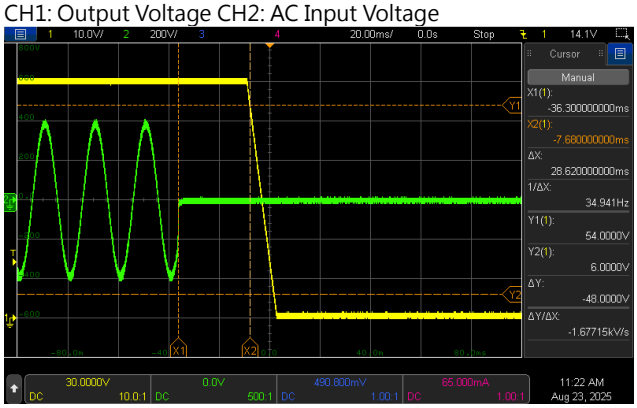
INPUT=115VAC/60HZ @ FULL LOAD

CH1: Output Voltage

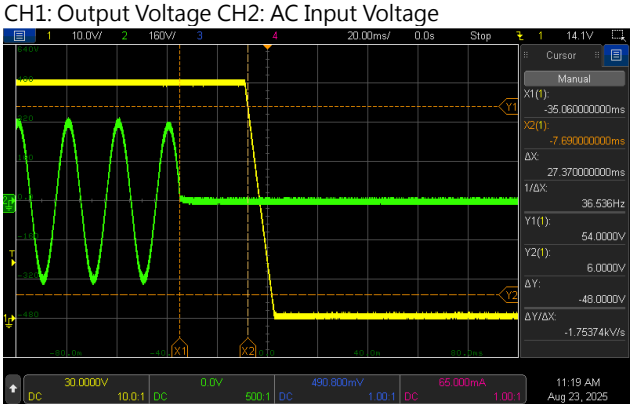


9	HOLD UP TIME (Typ.)	277VAC/16ms 230VAC/16ms 115VAC/16ms	I/P： 277 VAC I/P： 230 VAC I/P： 115 VAC O/P：FULL LOAD Ta：25℃	277VAC/28.62ms 230VAC/27.37ms 115VAC/26.64ms

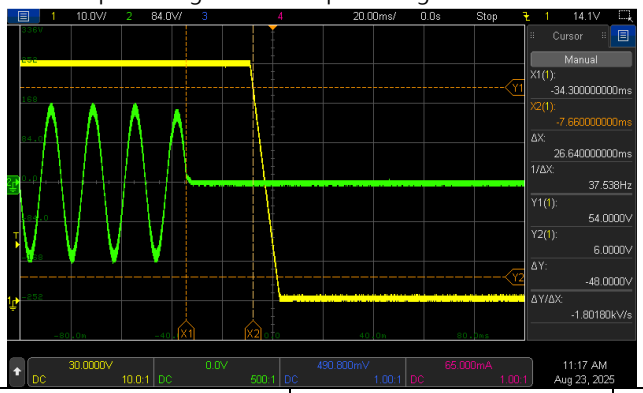
INPUT=277VAC/50HZ @ FULL LOAD
CH1: Output Voltage CH2: AC Input Voltage



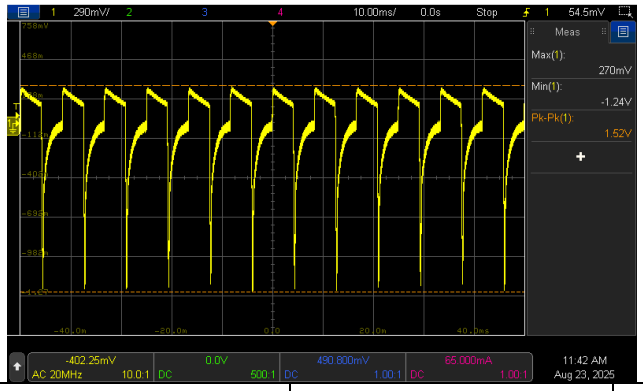
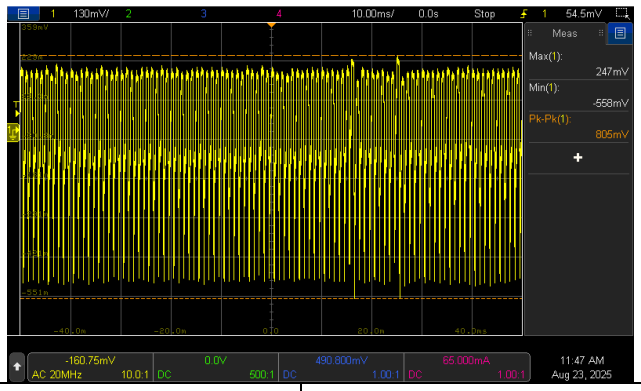
INPUT=230VAC/50HZ @ FULL LOAD
CH1: Output Voltage CH2: AC Input Voltage



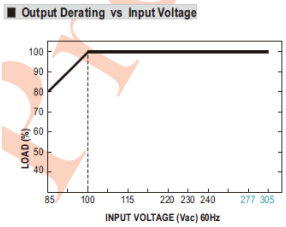
INPUT=115VAC/60HZ @ FULL LOAD
CH1: Output Voltage CH2: AC Input Voltage



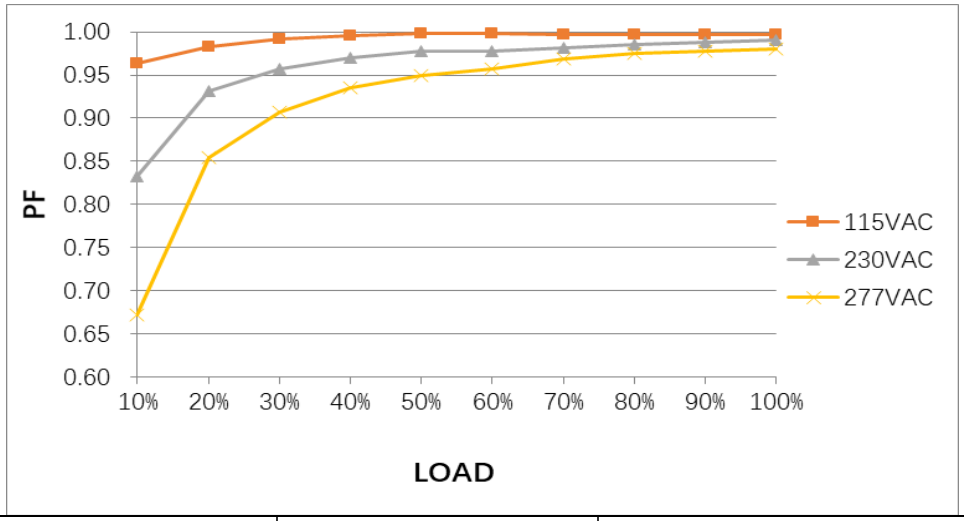
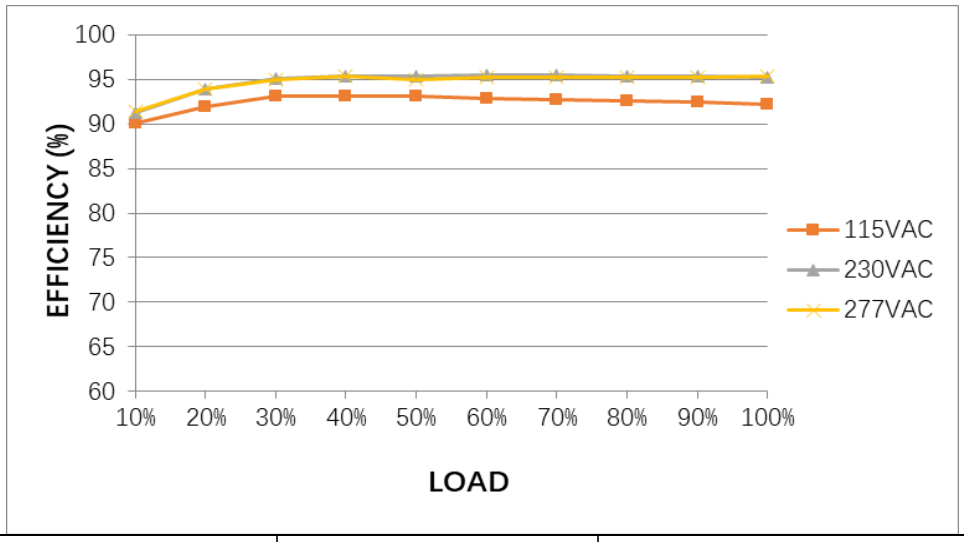
10	DYNAMIC LOAD	V1: 6000mVp-p	I/P: 230VAC O/P: (1) FULL/ MIN LOAD 50%DUTY / 120HZ (2) FULL/ MIN LOAD 50%DUTY / 1KHZ Ta:25℃	1520mVp-p 805mVp-p

	FULL / MIN LOAD 50%DUTY / 120HZ 		FULL / MIN LOAD 50%DUTY / 1KHZ 	
11	TRANSIENT RECOVERY TIME	V1: 6000mVp-p <500us	I/P: 230VAC O/P:40% LOAD CHANGE 50%DUTY/120HZ 1.25A/us	280mVp-p

INPUT FUNCTION TEST

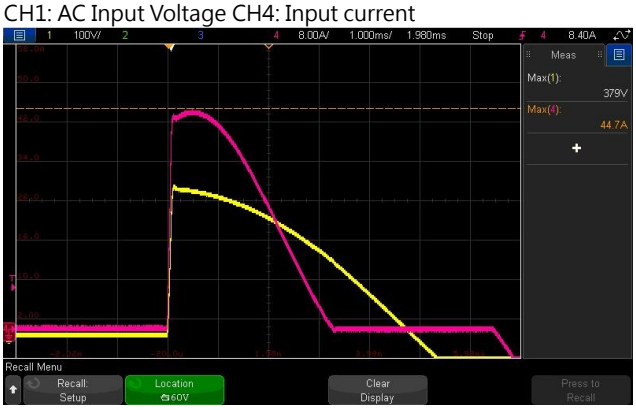
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	85VAC~305VAC 120VDC~ 431VDC 	(1) I/P: TESTING O/P: FULL / 80% LOAD (2) I/P: DC TESTING (L: + N: -) O/P: FULL / 80% LOAD (3) I/P: DC TESTING (L: - N: +) O/P: FULL / 80% LOAD Ta:25℃	(1) 81 V ~305V/ FULL LOAD 81 V ~305V/ 80% LOAD (2) 112Vdc~431Vdc/FULL LOAD 109Vdc~431Vdc/80% LOAD (3) 112Vdc~431Vdc/FULL LOAD 109Vdc~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 =2.91/ 277VAC I =3.52/ 230VAC I =7.05/ 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: 201.8uA For touch: 26.9uA
5	NO LOAD CONSUMPTION	Remote Power OFF: 0.75W/115Vac 0.75W/230Vac	I/P：115VAC I/P：230VAC I/P：277VAC	TEST: Remote Power / Remote Power

<table>
<tr><td></td><td></td><td>1W/277Vac

Remote Power ON:
5W/115Vac
5W/230Vac
5W/277Vac</td><td>O/P：NO LOAD
Ta：25℃</td><td><table><tr><td></td><td>OFF</td><td>ON</td></tr><tr><td>115VAC</td><td>0.342W</td><td>3.820W</td></tr><tr><td>230VAC</td><td>0.465W</td><td>3.763W</td></tr><tr><td>277VAC</td><td>0.546W</td><td>3.460W</td></tr></table></td></tr>
<tr><td>6</td><td>POWER FACTOR (Typ.)</td><td>0.90/ 277VAC
0.93/ 230VAC
0.98/115VAC</td><td>I/P： 277 VAC
I/P： 230 VAC
I/P： 115 VAC
O/P：FULL LOAD
Ta：25℃</td><td>PF=0.9799/277VAC
PF=0.9880/230VAC
PF=0.9973/115VAC</td></tr>
<tr><td colspan="4">P.F vs LOAD
 
</td></tr>
<tr><td>7</td><td>EFFICIENCY(Typ.)</td><td>95%</td><td>I/P:230 VAC
O/P:FULL LOAD
Ta:25℃</td><td>95.6%</td></tr>
<tr><td colspan="4">EFFICIENCY vs LOAD
 
</td></tr>
<tr><td>8</td><td>INRUSH CURRENT(Typ.)</td><td>277V/50A
230V/40A
115V/25A
COLD START</td><td>I/P： 277 VAC
I/P： 230 VAC
I/P： 115 VAC
O/P：FULL LOAD
Ta：25℃</td><td>I =44.7A/ 277VAC
I =33.0A/ 230VAC
I =17.7A/ 115VAC
T50=2100 us/230V</td></tr>
</table>

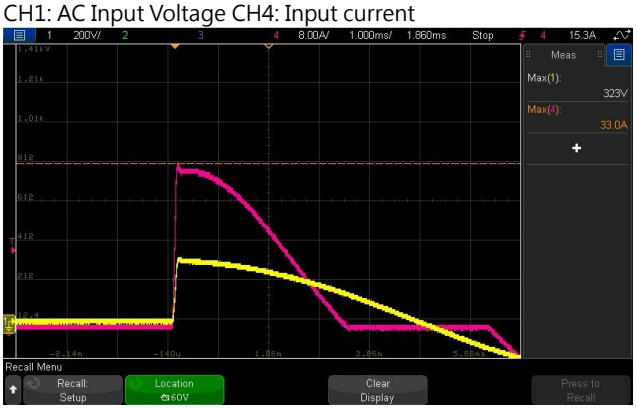
INPUT=277VAC/50HZ @ FULL LOAD

CH1: AC Input Voltage CH4: Input current



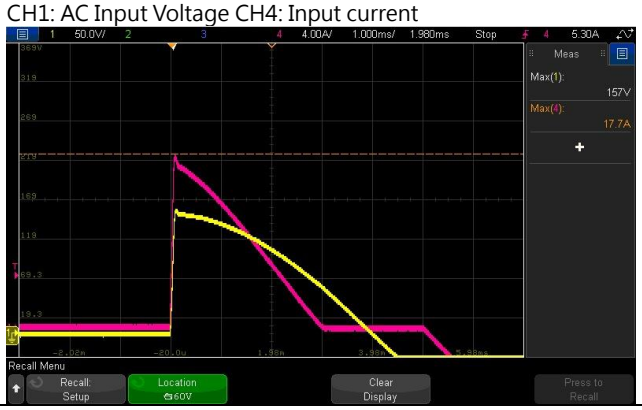
INPUT=230VAC/50HZ @ FULL LOAD

CH1: AC Input Voltage CH4: Input current

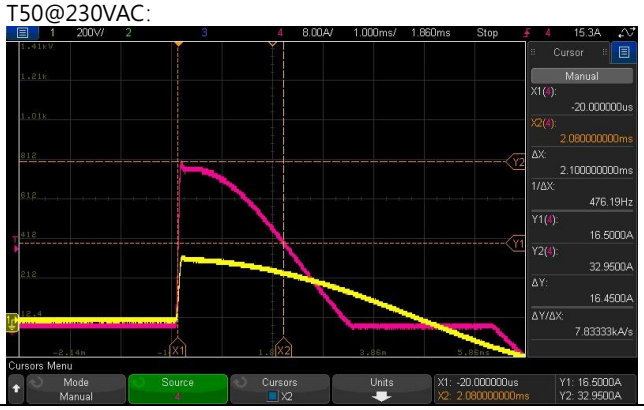


INPUT=115VAC/ 60HZ @ FULL LOAD

CH1: AC Input Voltage CH4: Input current



T50@230VAC:



PROTECTION FUNCTION TEST

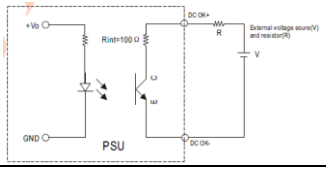
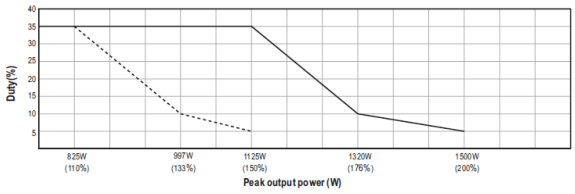
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER LOAD PROTECTION	Protection type: Normally works within 105 ~ 200% rated output power for more than 5 seconds and then constant current limiting without shutdown(Vout>30%), recovers automatically after fault condition is removed, or shut down o/p voltage when Vout<30%, AC re-power on to recover. >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： 114.3%/**305VAC** **114.3%/230VAC** **114.3%/100**VAC, 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. 203.2 %/305VAC 212.7 %/180VAC 203.2 %/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	73V~ 86V 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℃	79.6V/ 305VAC 79.6V/ 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, recovers automatically after fault condition is removed	I/P: 305VAC I/P: 85VAC O/P:FULL LOAD	TEST : OK O.T.P. Active Protection type : Shut down o/p voltage, recovers automatically after fault condition is removed
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 condition 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 condition 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	-0.36% ~ 0%	19mVp-p
12V / 0.8A	-0.27% ~0%	18mVp-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- Compensate 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: OK
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 (2) 44.7 dB Ta:25℃
6	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 (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	Q2 VDS: (1) 499V (2) 518V (3) 497V (4) 497V (5) 497V (6) 497V (7) 517V (8) 497V	Q3 VDS: (1) 496V (2) 509V (3) 493V (4) 493V (5) 493V (6) 493V (7) 506V (8) 496V

			(7)0%→400% Load. (8) Peak Load 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) 548V (2) 552V (3) 548V (4) 548V (5) 548V (6) 548V (7) 552V (8) 548V	
3	P.F.C DIODE	D5: Rated: 60A/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) 456V (2) 453V (3) 456V (4) 456V (5) 456V	
4	Diode Peak Voltage	Q100 / Q104: Rated: 200V/74A	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) 164V (2) 161V (3) 164V (4) 165V (5) 165V (6) 166V (7) 160V (8) 159V (9) 164V VO=Vnormal (1) 140.5V	Q104: VO=Vomax VDS: (1) 161V (2) 161V (3) 161V (4) 161V (5) 161V (6) 162V (7) 159V (8) 160V (9) 163V VO=Vnormal (1) 135.2V

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) 429V (2) 435V (3) 444 V (4) 429V (5) 438V (6) 438V

■ 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: 2.33 mA I/P-FG: 2.92 mA O/P-FG: 1.75 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: 50.00 GΩ I/P-FG: 22.415 GΩ O/P-FG: 13.393 GΩ NO DAMAGE
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40A / 2min Ta:25℃	9 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-750-24 1. ROOM AMBIENT BURN-IN : 2HRS I/P : 230VAC O/P : FULL LOAD Ta=26.8℃ 2. HIGH AMBIENT BURN-IN : 2HRS I/P : 230VAC O/P : FULL LOAD Ta= 60.1℃		

NO	Position	ROOM AMBIENT Ta=26.8℃	HIGH AMBIENT Ta=60.1℃
1	ZNR1	31.0℃	64.8℃
2	LF1	35.3℃	69.6℃
3	LF2	36.1℃	70.3℃
4	C2	33.2℃	67.1℃
5	BD1	55.4℃	88.0℃
6	C16	38.4℃	72.2℃
7	RTH1	36.1℃	69.5℃
8	RY1	39.4℃	72.6℃
9	RTH4	45.5℃	79.0℃
10	L1	50.5℃	84.0℃
11	Q1	45.9℃	79.6℃
12	D5	44.4℃	78.2℃
13	C5	35.4℃	69.0℃
14	ZNR1	31.0℃	64.8℃
15	LF1	35.3℃	69.6℃
16	LF2	36.1℃	70.3℃
17	C2	33.2℃	67.1℃
18	BD1	55.4℃	88.0℃
19	C16	38.4℃	72.2℃
20	RTH1	36.1℃	69.5℃
21	RY1	39.4℃	72.6℃
22	RTH4	45.5℃	79.0℃
23	L1	50.5℃	84.0℃
24	Q1	45.9℃	79.6℃

NO	Position	ROOM AMBIENT Ta=26.8℃	HIGH AMBIENT Ta=60.1℃
25	D5	44.4℃	78.2℃
26	C5	35.4℃	69.0℃
27	D6	41.7℃	75.6℃
28	U1	47.3℃	82.0℃
29	C7	43.4℃	77.7℃
30	Q3	46.7℃	81.9℃
31	Q2	49.2℃	84.4℃
32	Q4	53.5℃	88.2℃
33	C42	43.2℃	76.6℃
34	T1core	56.4℃	87.0℃
35	T1coil	93.4℃	98.0℃
36	C108	43.5℃	79.0℃
37	U9	49.1℃	82.7℃
38	U2	47.2℃	81.7℃
39	R7	47.9℃	81.5℃
40	C92	48.0℃	82.3℃
41	U5	48.1℃	81.8℃
42	U101	53.5℃	87.6℃
43	Q100	54.2℃	88.8℃
44	Q104	56.2℃	91.1℃
45	J101	47.6℃	80.7℃
46	D13	40.2℃	73.9℃
47	U104	35.9℃	69.1℃
48	RTH5	54.9℃	89.1℃
49	C107	45.5℃	80.7℃
50	C110	43.2℃	76.5℃
51	C135	38.5℃	70.7℃
52	U100	45.4℃	80.9℃
53	U7	41.4℃	75.2℃
54	RTH3	39.0℃	73.3℃
55	T2	40.4℃	74.4℃
56	C158	33.1℃	67.1℃
57	C201	39.3℃	74.1℃
58	U111	39.6℃	73.7℃
59	Q5	41.9℃	75.9℃
60	U100	42.3℃	76.2℃

2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)	I/P： 230 VAC O/P： 114%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	± 0.005%/℃(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= 60℃ 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) 937548HRS (2) 72642HRS (3) 125350HRS (4) 189547HRS
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