Test Report: NSP-75-36

75W 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

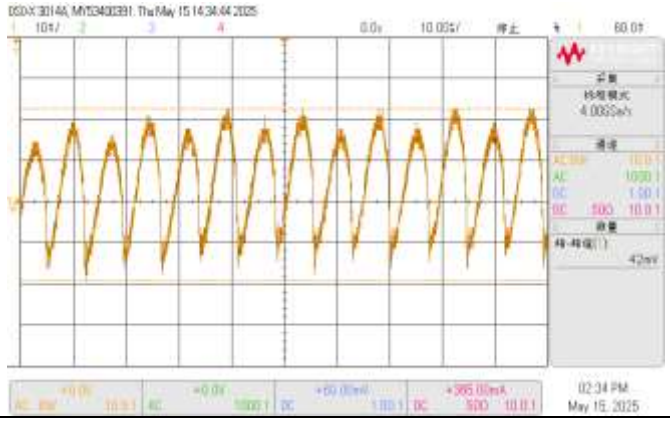
ENVIRONMENT TEST

■ DESIGN VERIFY TEST

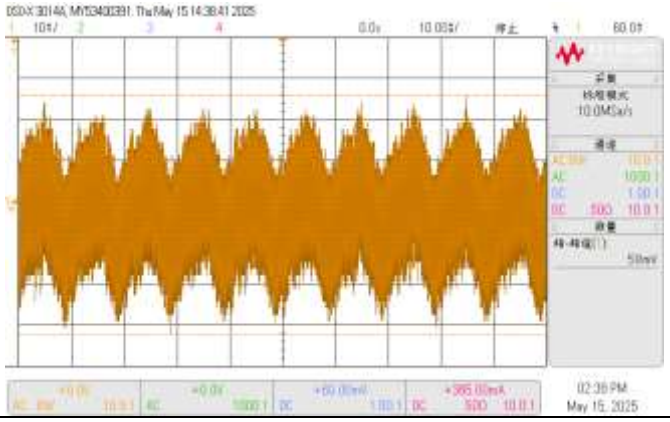
OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT VOLTAGE ADJUST RANGE	CH1: 32 V~43V	I/P： 230 VAC O/P：MIN LOAD Ta：25℃	30.68V~45.27V/230VAC
2	OUTPUT VOLTAGE TOLERANCE	V1: -1 %~ 1%	I/P: 85VAC /305VAC O/P:FULL/ MIN. LOAD Ta:25℃	V1: 0.33%~0.39%
3	LINE REGULATION	V1: -0.5%~ 0.5 %	I/P: 85VAC~ 305VAC O/P:FULL LOAD Ta:25℃	V1: -0.06%~0.06%
4	LOAD REGULATION	V1: -0.5%~ 0.5%	I/P: 230VAC O/P:FULL ~MIN LOAD Ta:25℃	V1: 0%~0.03%
5	OVER/UNDERSHOOT TEST	<± 5%	I/P: 230VAC O/P:FULL LOAD Ta:25℃	1.14%
6	RIPPLE & NOISE (Max)	V1: 240mVp-p	I/P: 230 VAC O/P: MIN LOAD—FULL LOAD Ta:25℃	V1: 58mVp-p / 100% load

high frequency :

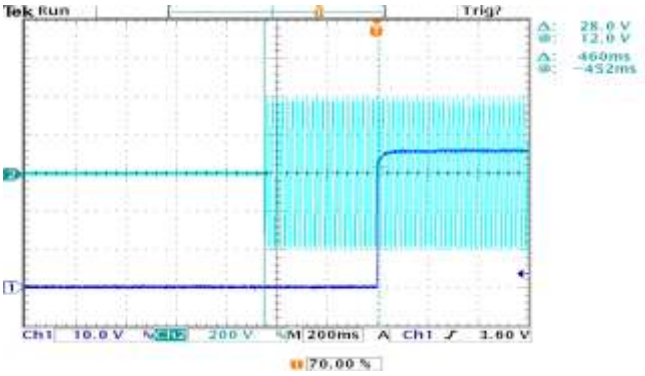


low frequency :

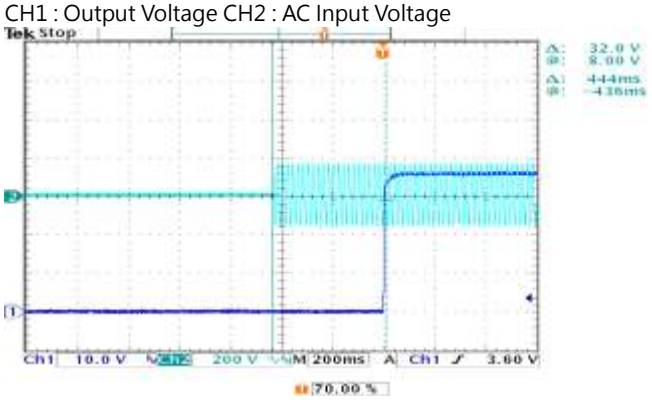


7	SET UP TIME(Max)	277VAC/1000ms 230VAC/1000ms 115VAC/1500ms	I/P：277 VAC I/P：230 VAC I/P：115VAC O/P：FULL LOAD Ta：25℃	277VAC/460 ms 230VAC/444ms 115VAC/360ms

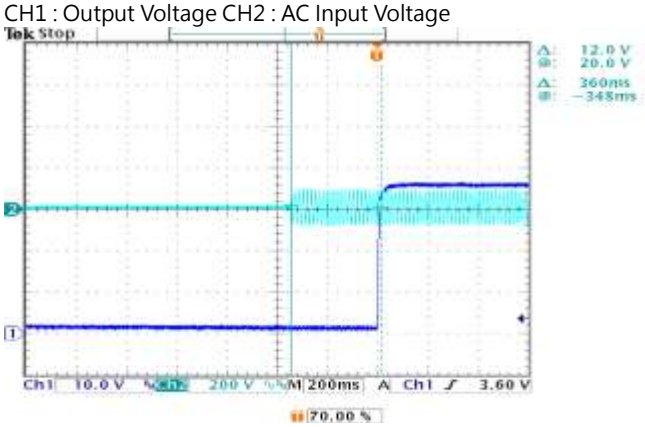
INPUT=277VAC/60HZ @ FULL LOAD
CH1 : Output Voltage CH2 : AC Input Voltage



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

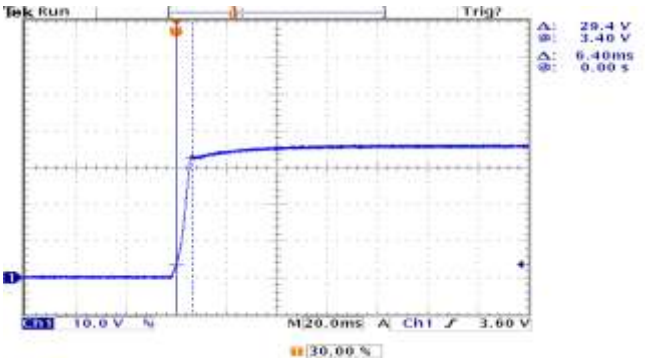


INPUT=115VAC/60HZ @ FULL LOAD
CH1 : Output Voltage CH2 : AC Input Voltage

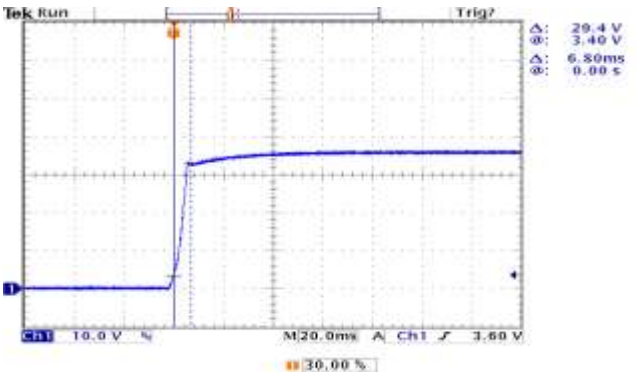


8	RISE TIME (Max)	277VAC/80ms 230VAC/80ms 115VAC/80ms	I/P：277 VAC I/P：230 VAC I/P：115VAC O/P：FULL LOAD Ta：25℃	277VAC/ 6.4 ms 230VAC/6.8ms 115VAC/5.6ms

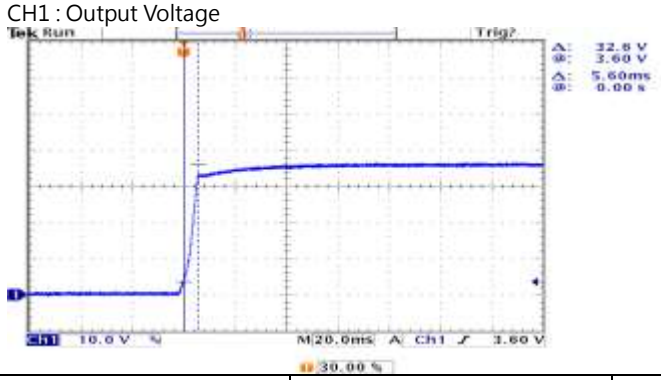
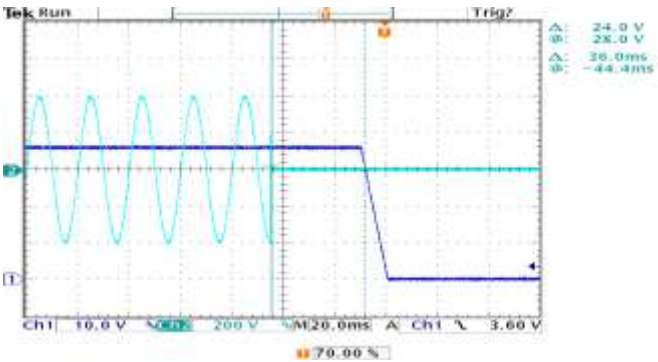
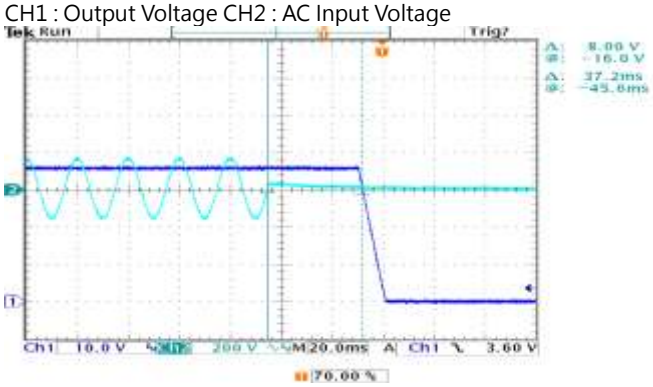
INPUT=277VAC/60HZ @ FULL LOAD
CH1 : Output Voltage

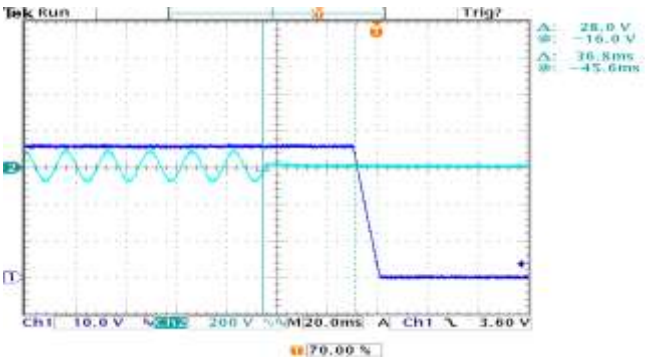
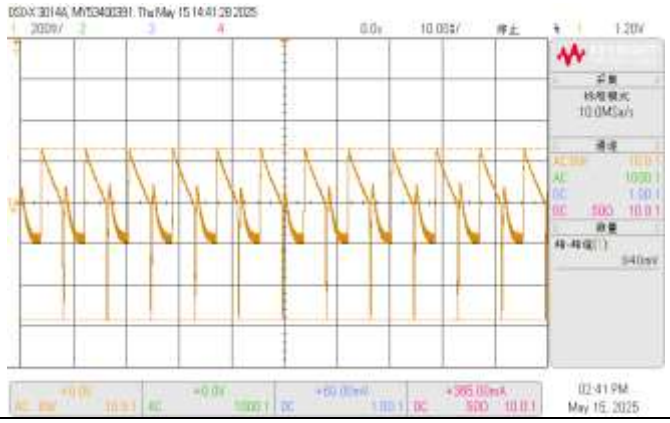
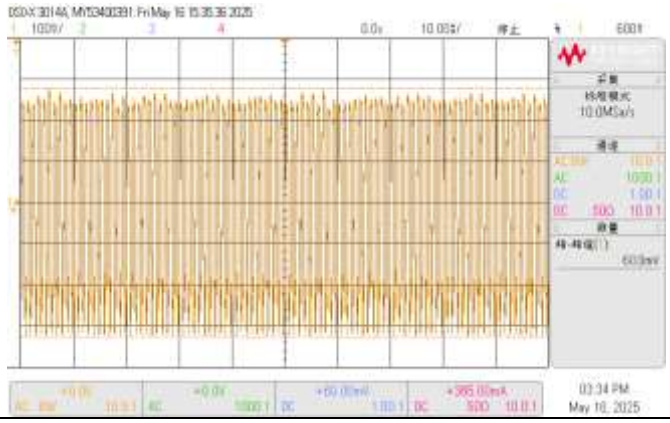


INPUT=230VAC/50HZ @ FULL LOAD



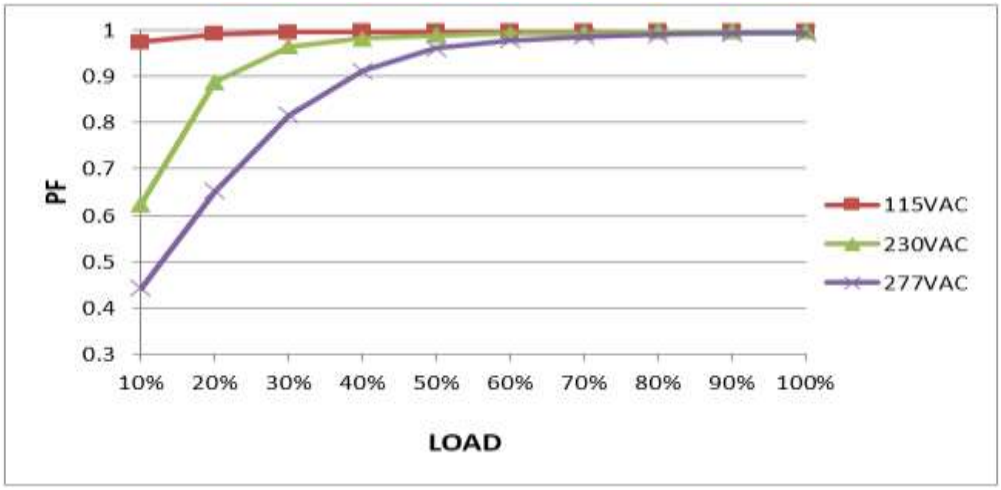
CH1 : Output Voltage

<table>
<tr><td></td><td colspan="4"></td></tr>
<tr><td></td><td colspan="4">INPUT=115VAC/60HZ @ FULL LOAD
CH1 : Output Voltage
  </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：115VAC
O/P：FULL LOAD
Ta：25℃</td><td>277VAC/36 ms
230VAC/37.2ms
115VAC/36.8ms</td></tr>
<tr><td></td><td colspan="4">INPUT=277VAC/60HZ @ 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</td></tr>
</table>

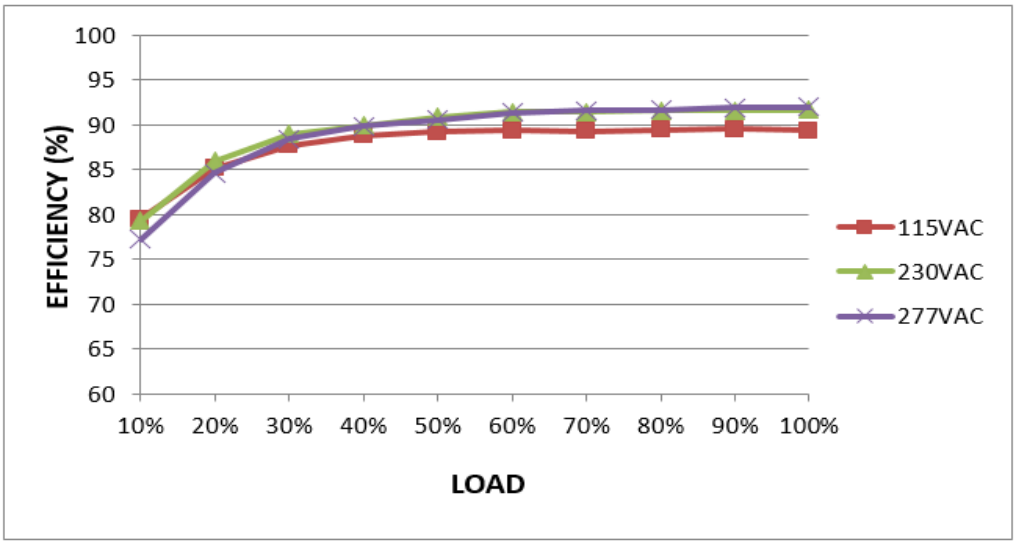
	CH1 : Output Voltage CH2 : AC Input Voltage  			
10	DYNAMIC LOAD	V1: 3600mVp-p	I/P: 230VAC O/P: (1)FULL /50% LOAD 50%DUTY / 120HZ (2)FULL /50% LOAD 50%DUTY / 1KHZ Ta:25℃	 840mVp-p 603mVp-p
	FULL /50% LOAD 50%DUTY / 120HZ  FULL /50% LOAD 50%DUTY / 1KHZ 			

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 LOAD (2) I/P:DC TESTING(L:+ N:-) O/P: FULL / 50% LOAD (3) I/P:DC TESTING(L:- N:+) O/P: FULL / 50% LOAD Ta:25℃	(1) 82V~308V (2) 115 Vdc~434Vdc/FULL LOAD 115Vdc~ 434Vdc/50% LOAD (3) 115Vdc~434 Vdc/FULL LOAD 115 Vdc~434Vdc/50% LOAD

			I/P: LOW-LINE-3V=82 V HIGH-LINE+10V=315 V 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/ 0.35 A 230V/ 0.4 A 115V/ 0.8A	I/P：277 VAC I/P： 230 VAC I/P： 115 VAC O/P：FULL LOAD Ta：25℃	I =0.31A/ 277VAC I =0.36A/ 230VAC I =0.73A/ 115VAC
4	LEAKAGE CURRENT	Earth leakage current <350μA(rms)@277Vac	I/P： 277 VAC O/P：Min LOAD Ta：25℃	L-FG： 221μA N-FG： 218μA
		Touch current <100μA(rms)@277Vac	I/P： 277 VAC O/P：Min LOAD Ta：25℃	L-V+： 52 μA L-V-： 51 μA N-V+： 52 μA N-V-： 51 μA
5	POWER FACTOR (Typ.)	0.90/277VAC 0.93/ 230VAC 0.98/ 115VAC	I/P： 277VAC I/P： 230 VAC I/P： 115 VAC O/P：FULL LOAD Ta：25℃	PF=0.993/277VAC PF=0.997/230VAC PF=0.998/115VAC
	P.F vs LOAD 			
6	EFFICIENCY(Typ.)	91.5%	I/P:230 VAC O/P:FULL LOAD Ta:25℃	91.68%

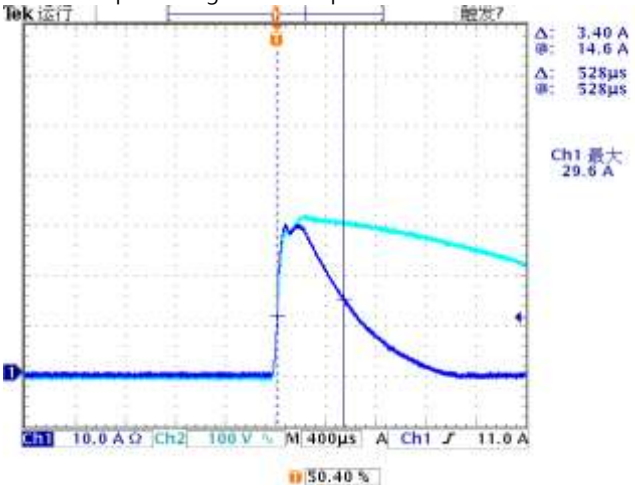
EFFICIENCY vs LOAD

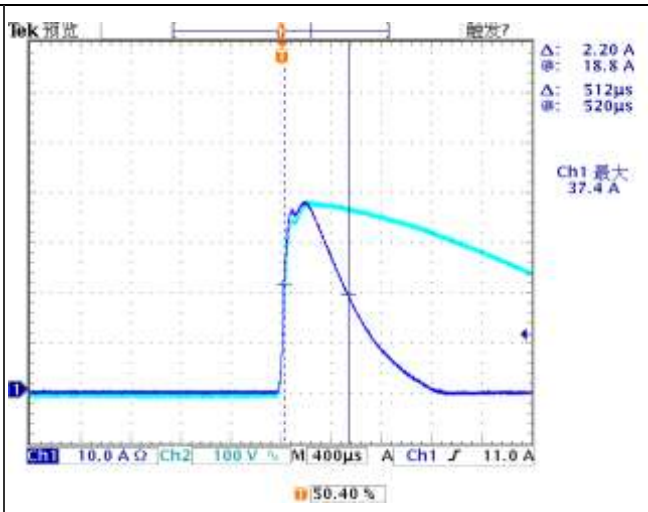


7	NO LOAD POWER CONSUMPTION(Typ.)	Remote Power ON : 2W/277VAC 2W/230VAC 2W/115VAC Remote Power OFF : 0.5W/277VAC 0.5W/230VAC 0.3W/115VAC	I/P : 277 VAC I/P : 230 VAC I/P : 115 VAC O/P : RC ON/RC OFF Ta : 25℃	Remote Power ON : 0.7263W/277VAC 0.712W/230VAC 0.7064W/115VAC Remote Power OFF : 0.3775W/277VAC 0.3004W/230VAC 0.1248W/115VAC
8	INRUSH CURRENT(Typ.)	277V/45A 230V/35A 115V/20A COLD START	I/P : 277 VAC I/P : 230 VAC I/P : 115VAC O/P : FULL LOAD Ta : 25℃	I =37.4A/ 277VAC T50=512 us/277V I =29.6A/ 230VAC T50=528us/230V I =13.9A/ 115VAC T50=472us/115V

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

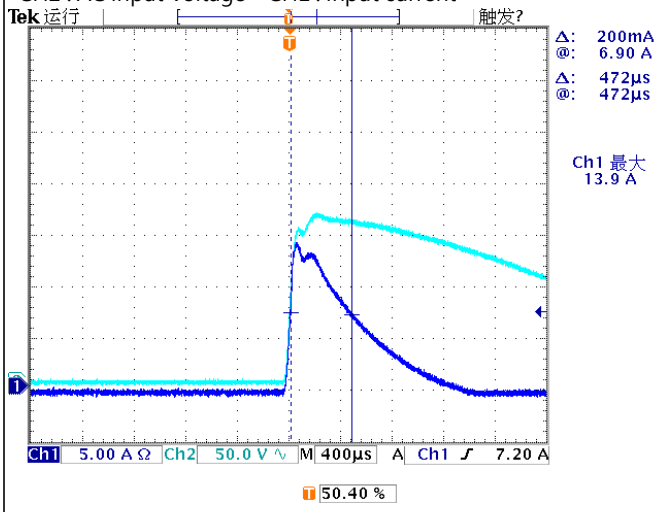
INPUT=230VAC/50HZ @ FULL LOAD
CH2 : AC Input Voltage CH1 : Input current





INPUT=115VAC/50HZ @ FULL LOAD

CH2 : AC Input Voltage CH1 : Input current



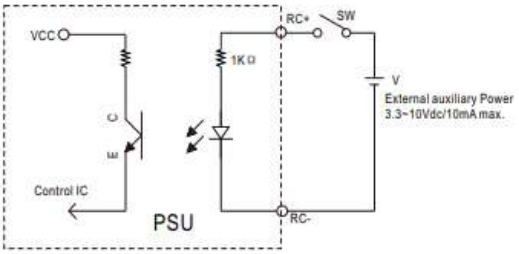
PROTECTION FUNCTION TEST

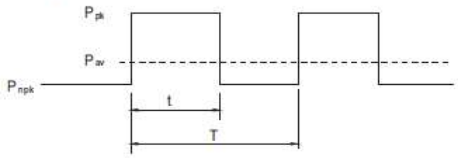
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER LOAD PROTECTION	105 ~ 200%	I/P: 305VAC I/P: 230VAC I/P: 85VAC O/P:TESTING Ta:25℃	142.5%/ 305VAC 142.5%/ 230VAC 142.46%/85VAC Protection type : 1、Normally works within 105 ~ 200% rated output power for more than 5 seconds and then constant current limiting

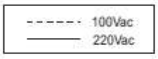
				without shutdown(Vout>30%), recovers automatically after fault condition is removed, or shut down o/p voltage when Vout<30%,AC re-power on to recover 2、>200% rated power, constant current limiting (Vout>30%)with auto-recovery after fault condition is removed, or shut down o/p voltage when Vout<30%,AC re-power on to recover
2	OVER VOLTAGE PROTECTION	44V~54V	I/P: 305VAC I/P: 230VAC I/P: 85VAC O/P:MIN LOAD Ta:25℃	48.8V/ 305VAC 48.8V/ 230VAC 48.4V/ 85VAC Protection type : Shut down o/p voltage, AC re-power on to recover
3	OVER TEMPERATURE PROTECTION	NO DAMAGE	I/P: 305VAC I/P: 85VAC O/P:FULL LOAD	O.T.P. Active Protection type : Shut down o/p voltage, AC re-power on to recover
4	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 305VAC I/P: 85VAC O/P: FULL LOAD Ta:25℃	NO DAMAGE Protection type : Constant current limiting for more than 5 seconds (Vout<30%) and then shut down a/p voltage, AC re-power on to recover

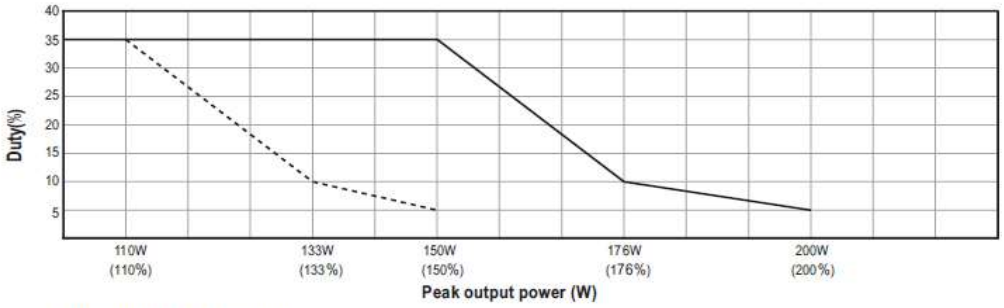
CONTROL FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT

<table>
<tr>
<td>1</td>
<td>REMOTE ON/OFF CONTROL</td>
<td>
2.Remote Control
The PSU can be turned ON/OFF by using the "Remote Control" function with external switch and auxiliary power
<table>
<tr><td>PSU Vo Status</td><td>Between RC-(pin1) and RC+(pin2) on CN1</td></tr>
<tr><td>POWER ON</td><td>Keep 0~0.8Vdc or open</td></tr>
<tr><td>POWER OFF</td><td>Keep 3.3~10Vdc by external voltage</td></tr>
</table>


I/P: 230 VAC
O/P:FULL LOAD
Ta:25℃
Test Result：
<table>
<tr><th>Between ON/OFF</th><th>Power Output Status</th></tr>
<tr><td>SW ON（0~0.8V）</td><td>ON</td></tr>
<tr><td>SW OFF （3.3~10V）</td><td>OFF</td></tr>
</table>
</td>
</tr>
<tr>
<td>2</td>
<td>PEAK POWER</td>
<td>
1. Peak Power
$P_{av} = \frac{P_{pk} \times t + P_{npk} \times (T-t)}{T} \leqslant P_{rated}$
$Duty = \frac{t}{T} \times 100\% \leqslant 35\%$
$t \leq 5$ sec


Pav : Average output power (W)
Ppk : Peak output power (W)
Pnpk : Non-peak output power (W)
Prated : Rated output power (W)
t : Peak power width (sec)
T: Period (sec)




For example (24V model) :
Vin = 200Vac Duty_max = 5%
$P_{av} = P_{rated} = 100W$
$P_{pk} = 200W$
$t \leqslant 5$ sec
$T \geqslant \frac{5 \text{ sec}}{5\%} \geqslant 100\text{sec}$
$P_{npk} \leqslant \frac{TP_{av} - tP_{pk}}{T-t}$
$P_{npk} \leqslant 94.7W$
Note:When the output voltage is adjusted to the upper limit, the peak power is 150% rated power

I/P: 100/305VAC
O/P:PEAK LOAD (1Hour NO DAMGE)
Ta:25℃
Test Result：OK
</td>
</tr>
</table>

COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Transistor (D to S) or (C to E) Peak Voltage	Q6 Rated 650 V/11 A	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. I/P:Low-Line -3V = 82V 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. Ta:25℃	 VDS: (1) 478V (2) 462V (3) 466V (4) 466V (5) 466V (6) 462V (7) 482V VDS: (1) 432V (2) 452V (3) 432V (4) 432V (5) 432V (6) 436V (7) 477V
2	P.F.C Transistor (D to S) or (C to E) Peak Voltage	Q1 Rated 650 V/15A	I/P:High-Line +3V =308V AC ON/OFF 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. I/P:Low-Line -3V =82V AC ON/OFF O/P: (1)Full Load (2)Output Short	 VDS: (1) 472V (2) 459V (3) 447V (4) 452V (5) 456V (6) 459V (7) 459V VDS: (1) 500V (2) 472V

			(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. Ta:25℃	(3) 492V (4) 468V (5) 460V (6) 492V (7) 484V
3	P.F.C DIODE	D8 Rated 4 A/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 I/P:Low-Line -3V = 82V 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 Ta:25℃	 (1) 434V (2) 430V (3) 430V (4) 438V (1) 442V (2) 434V (3) 442V (4) 438V
4	Diode Peak Voltage	D101 Rated 20A/150V	AC ON/OFF I/P:High-Line +3V =308 V 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 Ta:25℃	 D101: (1) 99.3V (2) 13.4V (3) 99.1V (4) 99.9V (5) 100.7V (6) 100.7V (7) 101.5V (8) 90.3V
5	Input Capacitor Voltage	C5 Rated: 68μ/ 450V Surge voltage:500V	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	 (1)429V (2)429V (3)437V (4)425 V

			Ta:25℃	
6	Control IC Voltage Test	PWM IC U2 Rated -0.4 V~ 30 V	AC ON/OFF I/P:High-Line +3V =308 V O/P(1)FULL LOAD (2) Output Short (3)O.L.P (4)O.V.P. (5)NO LOAD VRmin(LOW LINE) Ta:25℃	U2 (1) 18.9V (2) 18.7V (3) 18.9V (4) 18.9V (5) 12.0V

■ 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: 1.932 mA I/P-FG: 1.943 mA O/P-FG: 1.555 m A
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: 500 VDC I/P-FG: 500 VDC O/P-FG: 500 VDC Ta:25℃	I/P-O/P: >9999 MΩ I/P-FG: >9999 MΩ O/P-FG: >9999 MΩ 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	EN61000-3-2 CLASS A	I/P:230VAC/50HZ O/P:FULL LOAD Ta:25℃	PASS
2	CONDUCTION	BS EN/EN55032(CISPR32),CNS 15936 EN/EN55014-1(CISPR14-1) EN/EN55011(CISPR11)	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 EN/EN55014-1(CISPR14-1) EN/EN55011(CISPR11)	I/P： 230 VAC (50HZ) O/P：FULL LOAD Ta：25℃	PASS Test by certified Lab
4	E.S.D	EN61000-4-2 AIR：15KV / Contact：8KV	I/P： 230 VAC/50HZ O/P：FULL LOAD Ta：25℃	CRITERIA A
5	E.F.T	EN61000-4-4 INPUT： 2KV	I/P： 230 VAC/50HZ O/P：FULL LOAD Ta：25℃	CRITERIA A
6	SURGE	IEC61000-4-5 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

<table>
<tr><th>NO</th><th>TEST ITEM</th><th>SPECIFICATION</th><th>TEST CONDITION</th><th>RESULT</th></tr>
<tr><td>1</td><td>TEMPERATURE RISE TEST</td><td colspan="3">MODEL : NSP-75-48
1. ROOM AMBIENT BURN-IN : 2 HRS
I/P : 230VAC O/P : FULL LOAD Ta=26 ℃
2. HIGH AMBIENT BURN-IN : 2 HRS
I/P : 230VAC O/P : FULL LOAD Ta=60.8 ℃
<table>
<tr><th>NO</th><th>Position</th><th>ROOM AMBIENT Ta=26 ℃</th><th>HIGH AMBIENT Ta=60.8 ℃</th></tr>
<tr><td>1</td><td>LF1</td><td>44.5℃</td><td>78.7℃</td></tr>
<tr><td>2</td><td>C2</td><td>50.7℃</td><td>82.8℃</td></tr>
<tr><td>3</td><td>RTH1</td><td>62.7℃</td><td>88.6℃</td></tr>
<tr><td>4</td><td>L1</td><td>50.9℃</td><td>82.9℃</td></tr>
<tr><td>5</td><td>L2</td><td>50.2℃</td><td>83.2℃</td></tr>
<tr><td>6</td><td>C10</td><td>51.2℃</td><td>84.1℃</td></tr>
<tr><td>7</td><td>Q1</td><td>47.4℃</td><td>81.9℃</td></tr>
<tr><td>8</td><td>C5</td><td>48.7℃</td><td>81.9℃</td></tr>
<tr><td>9</td><td>U2</td><td>58.8℃</td><td>93.0℃</td></tr>
<tr><td>10</td><td>C36</td><td>54.3℃</td><td>88.1℃</td></tr>
<tr><td>11</td><td>BD1</td><td>56.1℃</td><td>87.6℃</td></tr>
<tr><td>12</td><td>D8</td><td>52.1℃</td><td>85.3℃</td></tr>
<tr><td>13</td><td>Q5</td><td>52.1℃</td><td>86.0℃</td></tr>
<tr><td>14</td><td>T1</td><td>66.3℃</td><td>99.9℃</td></tr>
<tr><td>15</td><td>C202</td><td>55.1℃</td><td>88.5℃</td></tr>
<tr><td>16</td><td>C105</td><td>54.5℃</td><td>87.8℃</td></tr>
<tr><td>17</td><td>U4</td><td>50.9℃</td><td>84.8℃</td></tr>
<tr><td>18</td><td>U101</td><td>54.3℃</td><td>87.6℃</td></tr>
<tr><td>19</td><td>D100</td><td>66.7℃</td><td>98.4℃</td></tr>
<tr><td>20</td><td>RTH3</td><td>51.6℃</td><td>86.3℃</td></tr>
</table></td></tr>
<tr><td>2</td><td>OVER LOAD BURN-IN TEST</td><td>NO DAMAGE
1 HOUR (MIN)</td><td>I/P : 230 VAC
O/P : 129 % LOAD
Ta : 25℃</td><td>TEST : OK</td></tr>
<tr><td>3</td><td>LOW TEMPERATURE
TURN ON TEST</td><td>TURN ON AFTER 2 HOUR</td><td>I/P : 85VAC/305VAC
O/P : 80/100 % LOAD
Ta=-35/-45 ℃</td><td>TEST : OK</td></tr>
<tr><td>4</td><td>HIGH HUMIDITY
HIGH TEMPERATURE
HIGH VOLTAGE
TURN ON TEST</td><td>AFTER 12 HOURS
IN CHAMBER ON
CONTROL 50 ℃/95 %R.H
NO DAMAGE</td><td>I/P : 315 VAC
O/P : FULL LOAD
Ta= 50 ℃
HUMIDITY= 95 %R.H</td><td>TEST : OK</td></tr>
<tr><td>5</td><td>TEMPERATURE
COEFFICIENT</td><td>± 0.05 %/℃(0~60℃)</td><td>I/P : 230 VAC
O/P : FULL LOAD</td><td>± 0.016 %/℃(0~60℃)</td></tr>
<tr><td>6</td><td>STORAGE TEMPERATURE
TEST</td><td>-40~85℃</td><td colspan="2">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</td></tr>
</table>

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 C105 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) 431932HRS (2) 42360HRS (3) 66983HRS (4) 106488HRS
10	MTBF	Conducted by Parts Stress Analysis Prediction 2163.5K hrs min. Telcordia SR-332 (Bellcore) ; 250.4K 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	WUWQIN/ZHOUBIAO	WENF	WUWQ

2020.10.1 TAG-QA-009