Test Report: NSP-75-60

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

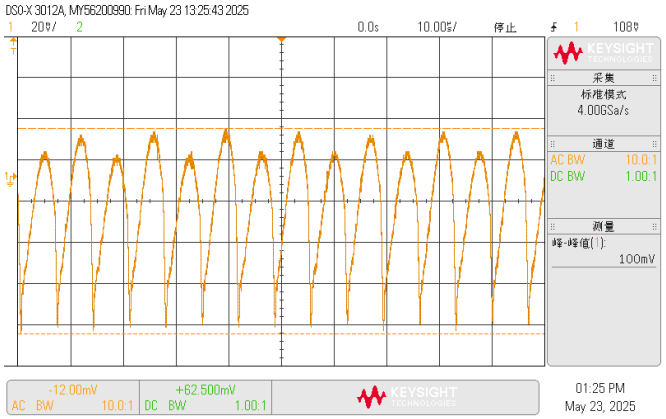
ENVIRONMENT TEST

■ DESIGN VERIFY TEST

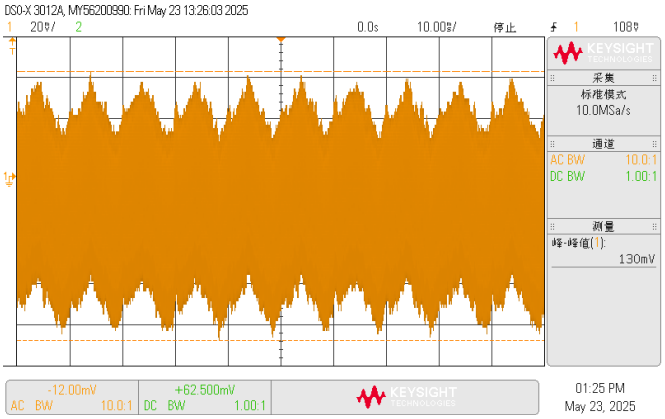
OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT VOLTAGE ADJUST RANGE	CH1: 54V~ 72V	I/P： 230 VAC O/P：MIN LOAD Ta：25℃	52.5V~74.46V/230VAC
2	OUTPUT VOLTAGE TOLERANCE	V1: -1 %~ 1%	I/P: 85VAC /305VAC O/P:FULL/ MIN. LOAD Ta:25℃	V1: 0.13%~0.25%
3	LINE REGULATION	V1: -0.5%~ 0.5 %	I/P: 85VAC~ 305VAC O/P:FULL LOAD Ta:25℃	V1: 0%~ 0.02%
4	LOAD REGULATION	V1: -0.5%~ 0.5%	I/P: 230VAC O/P:FULL ~MIN LOAD Ta:25℃	V1: 0 %~0.02%
5	OVER/UNDERSHOOT TEST	<± 5%	I/P: 230VAC O/P:FULL LOAD Ta:25℃	0.75%
6	RIPPLE & NOISE (Max)	V1: 300 mVp-p	I/P: 230 VAC O/P: MIN LOAD—FULL LOAD Ta:25℃	V1: 130mVp-p / 100% load

high frequency：

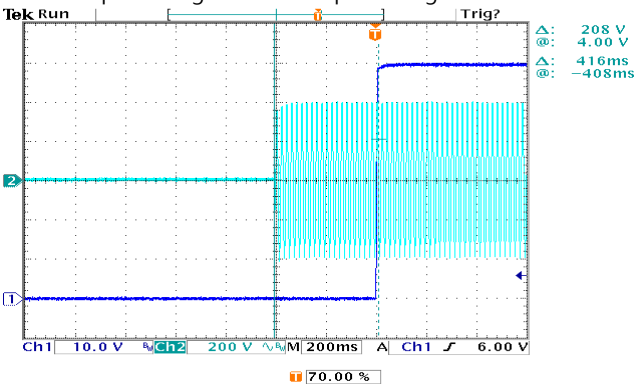


low frequency：

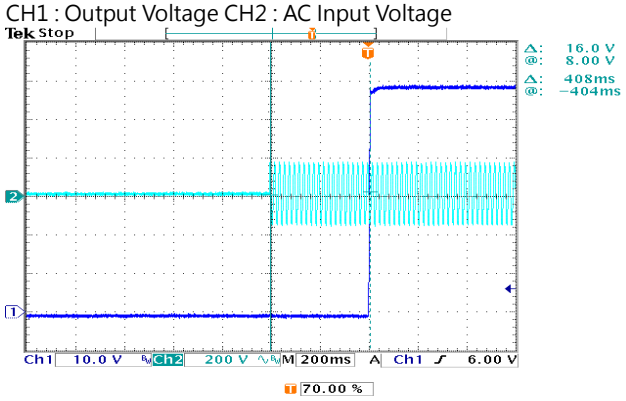


7	SET UP TIME(Max)	277VAC/1000ms 230VAC/1000ms 115VAC/1500ms	I/P：277VAC I/P：230VAC I/P：115VAC O/P：FULL LOAD Ta：25℃	277VAC/416ms 230VAC/408ms 115VAC/340 ms

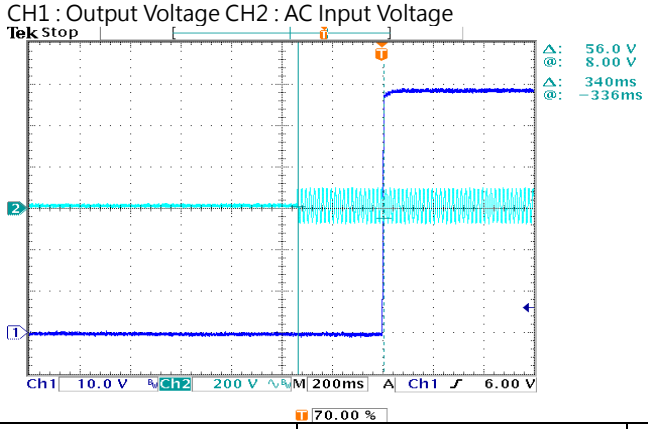
INPUT=277VAC/60HZ @ FULL LOAD
CH1 : Output Voltage CH2 : AC Input Voltage



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

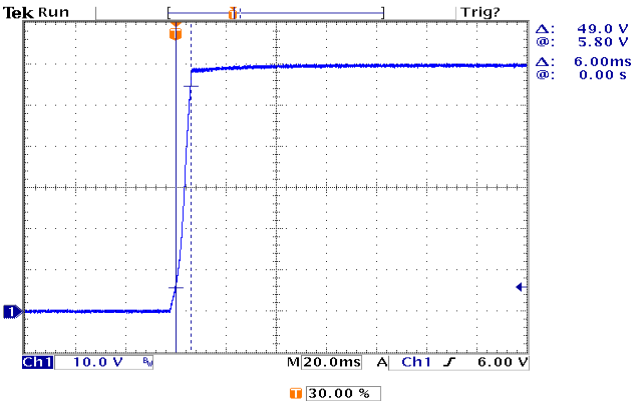


INPUT=115VAC/60HZ @ FULL LOAD
CH1 : Output Voltage CH2 : AC Input Voltage

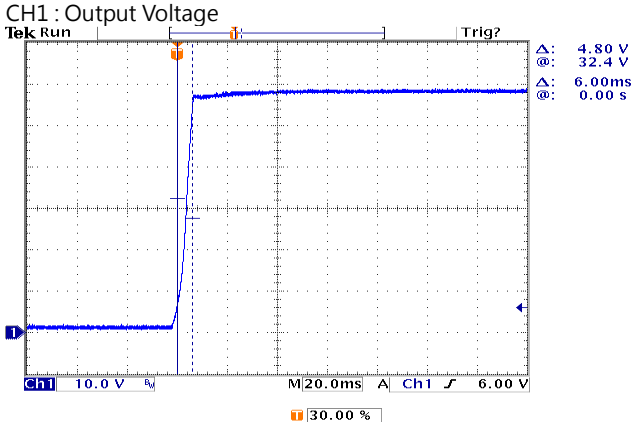


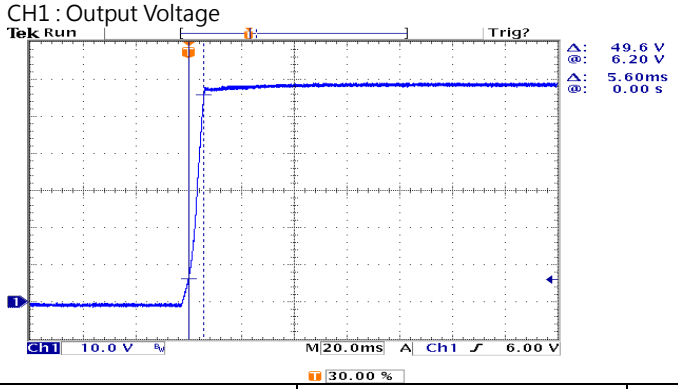
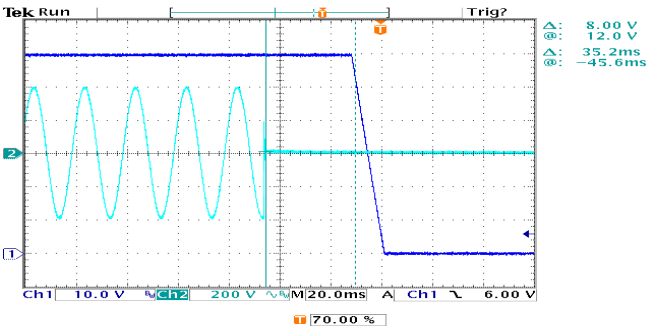
8	RISE TIME (Max)	277VAC/80ms 230VAC/80ms 115VAC/80ms	I/P：277 VAC I/P：230 VAC I/P：115VAC O/P：FULL LOAD Ta：25℃	277VAC/6ms 230VAC/6ms 115VAC/5.6ms

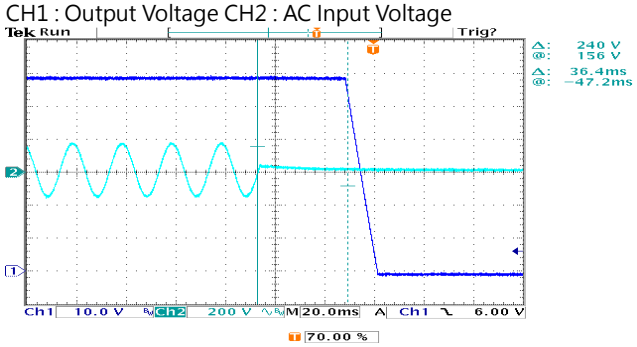
INPUT=277VAC/60HZ @ FULL LOAD
CH1 : Output Voltage

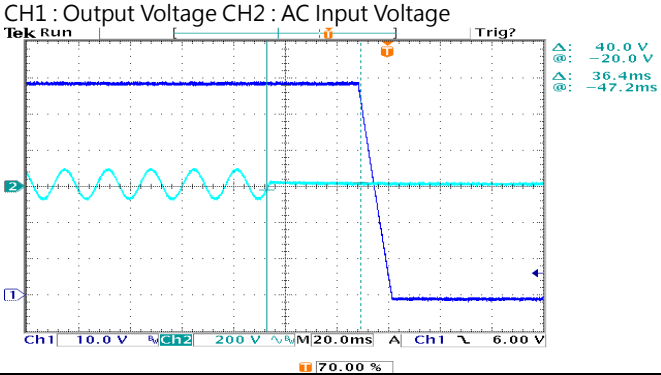


INPUT=230VAC/50HZ @ FULL LOAD
CH1 : Output Voltage



<table>
<tr><td></td><td colspan="4">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/35.2ms
230VAC/36.4ms
115VAC/36.4ms</td></tr>
<tr><td></td><td colspan="4">INPUT=277VAC/60HZ @ FULL LOAD
CH1 : Output Voltage CH2 : AC Input Voltage
 

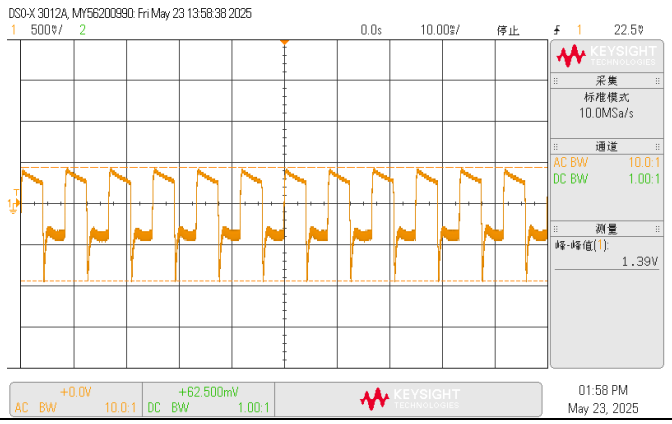
INPUT=230VAC/50HZ @ FULL LOAD
CH1 : Output Voltage CH2 : AC Input Voltage
 

INPUT=115VAC/60HZ @ FULL LOAD
CH1 : Output Voltage CH2 : AC Input Voltage
 
</td></tr>
<tr><td>10</td><td>DYNAMIC LOAD</td><td>V1: 6000 mVp-p</td><td>I/P: 230VAC
O/P:
(1)FULL /50% LOAD 50%DUTY / 120HZ
(2)FULL /50% LOAD 50%DUTY / 1KHZ
Ta:25℃</td><td>

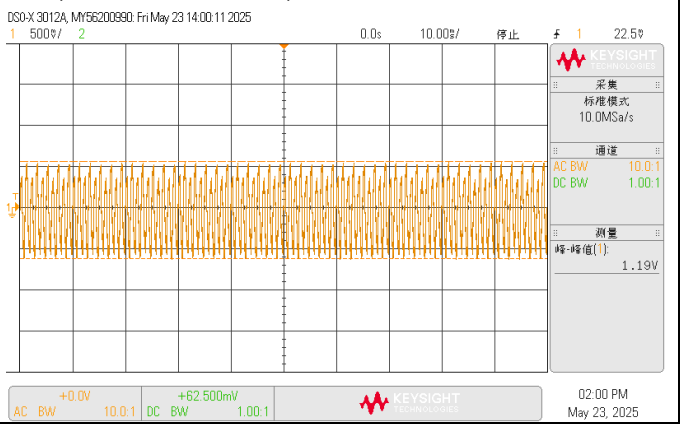
1390mVp-p

1190mVp-p</td></tr>
</table>

FULL /50% LOAD 50%DUTY / 120HZ

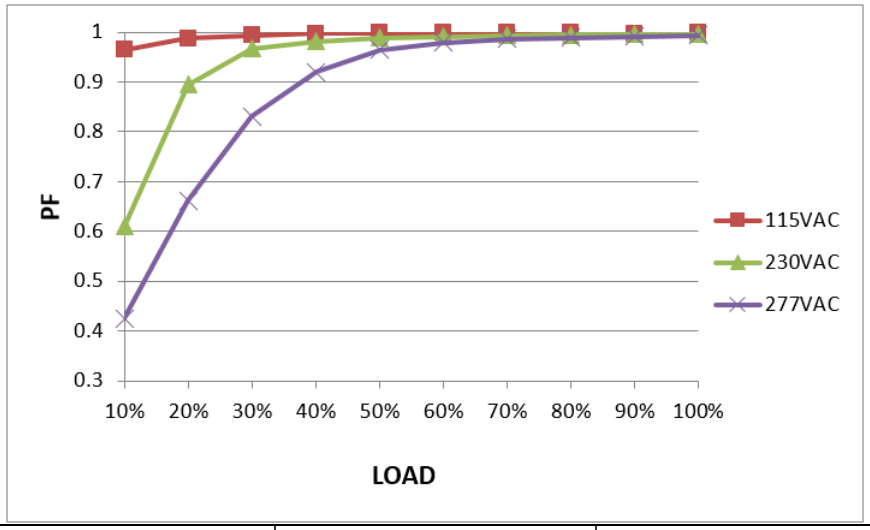
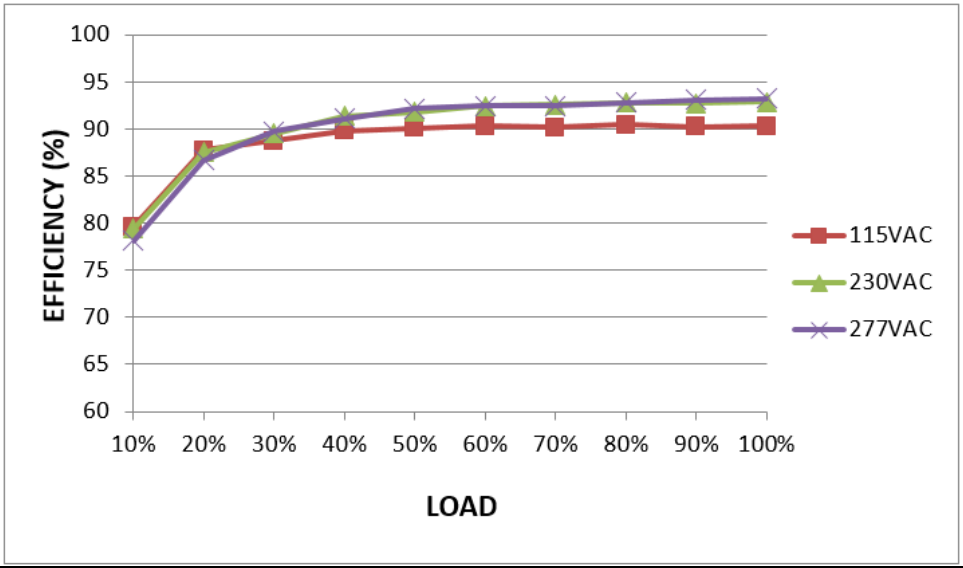


FULL /50% LOAD 50%DUTY / 1KHZ



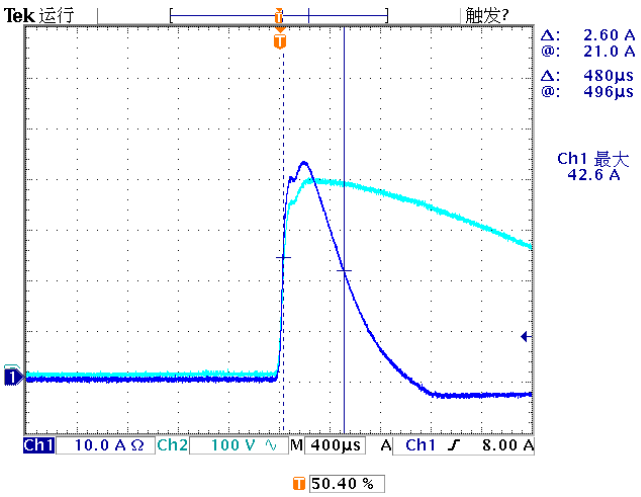
INPUT FUNCTION TEST

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~315V (2) 115Vdc~ 434Vdc/FULL LOAD 115Vdc~434Vdc/50% LOAD (3) 115Vdc~434Vdc/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： 277VAC I/P： 230 VAC I/P： 115VAC O/P：FULL LOAD Ta：25℃	I =0.31A/ 277VAC I =0.36A/ 230VAC I =0.74A/ 115VAC
4	LEAKAGE CURRENT	Earth leakage current <350μA(rms)@277Vac	I/P： 277 VAC O/P：Min LOAD Ta：25℃	L-FG：214μA N-FG：212μA
		Touch current <100μA(rms)@277Vac	I/P： 277 VAC O/P：Min LOAD Ta：25℃	L-V+： 49 μA L-V-： 47 μA N-V+： 49 μA N-V-： 47 μA

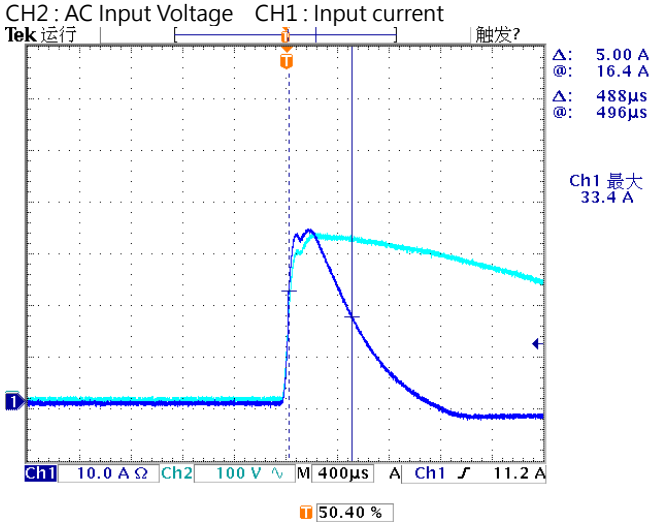
5	POWER FACTOR (Typ.)	**0.90/277VAC** 0.93/ 230VAC 0.98/ 115VAC	I/P： 277 VAC I/P： 230 VAC I/P： 115 VAC O/P：FULL LOAD Ta：25℃	PF=0.993/277VAC PF=0.997/230VAC PF=0.998/115VAC
	P.F vs LOAD 			
6	EFFICIENCY(Typ.)	92%	I/P:230 VAC O/P:FULL LOAD Ta:25℃	92.88%
	EFFICIENCY vs LOAD 			
7	NO LOAD POWER CONSUMPTION(Typ.)	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： 0.9796W/277VAC 0.9723W/230VAC 0.9752W/115VAC Remote Power OFF： 0.379W/277VAC 0.2966W/230VAC 0.1244W/115VAC

8	INRUSH CURRENT(Typ.)	277V/45A 230V/35A 115V/20A COLD START	I/P： 277VAC I/P： 230 VAC I/P： 115VAC O/P：FULL LOAD Ta：25℃	I =42.6A/ 277VAC T50= 480 us/277V I =33.4A/ 230VAC T50= 488 us/230V I =15.5A/ 115VAC T50= 456us/115V

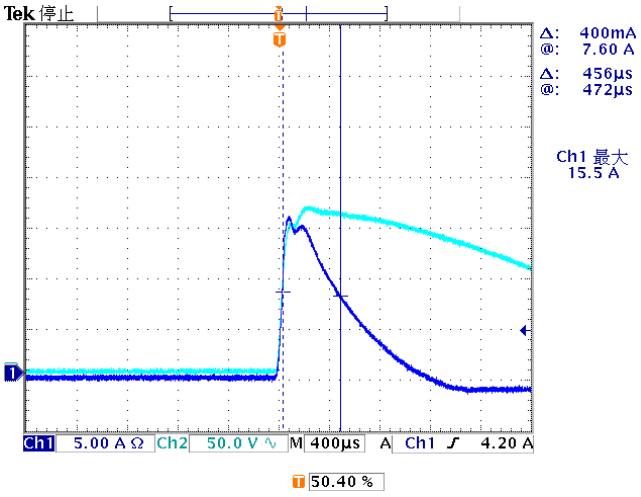
INPUT=277VAC/50HZ @ FULL LOAD
CH2 : AC Input Voltage CH1 : Input current



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



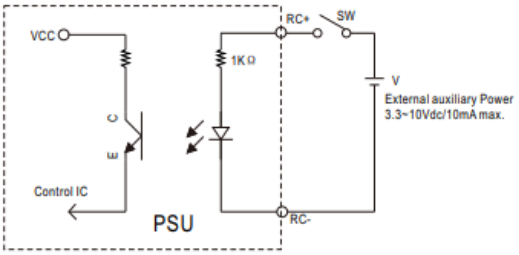
INPUT=115VAC/50HZ @ FULL LOAD
CH2 : AC Input Voltage CH1 : Input current

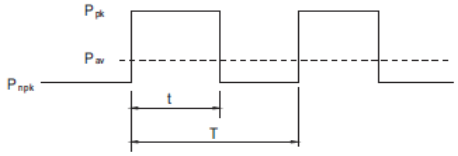


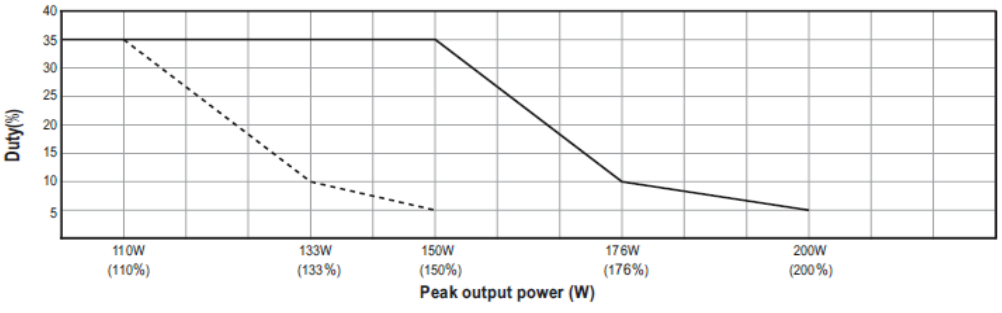
PROTECTION FUNCTION TEST

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℃	138.03%/ 305VAC 138.03%/ 230VAC 138.03%/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	73V~86V	I/P: 305VAC I/P: 230VAC I/P: 85VAC O/P:MIN LOAD Ta:25℃	80.4V/ 305VAC 80.4V/ 230VAC 80.4V/ 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, 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

<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>REMOTE ON/OFF CONTROL</td><td colspan="3">
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 colspan="3">
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：PASS
</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) 450V (2) 470V (3) 446V (4) 446V (5) 446V (6) 450V (7) 470V VDS: (1) 434V (2) 434V (3) 426V (4) 426V (5) 426V (6) 442V (7) 466V
2	P.F.C Transistor (D to S) or (C to E) Peak Voltage	Q1 Rated 650 V/15 A	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.	VDS: (1) 438V (2) 474V (3) 446V (4) 456V (5) 460V (6) 442V (7) 470V

			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/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) 446V (2) 430V (3) 442V (4) 464V (5) 468V (6) 442V (7) 438V
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) 432V (2) 468V (3) 436V (4) 428V (1) 444V (2) 440V (3) 444V (4) 444V
4	Diode Peak Voltage	D101 Rated 20 A/200V	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) 159V (2) 13.5V (3) 157V (4) 159V (5) 162V (6) 159V (7) 175V (8) 151 V 54

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 Ta:25℃	 (1)426V (2)426V (3)438V (4) 426V
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) 18.9V (3) 18.9V (4) 19.3V (5) 12.7V

■ 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: 1.916 mA I/P-FG: 1.934 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℃	10mΩ

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>
</table>

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	-40~60℃	1. Thermal shock Temperature： -45℃~ +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