



Test Report: NSP-750-5

750W AC/DC High Reliable Multi-Industries Enclosed
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

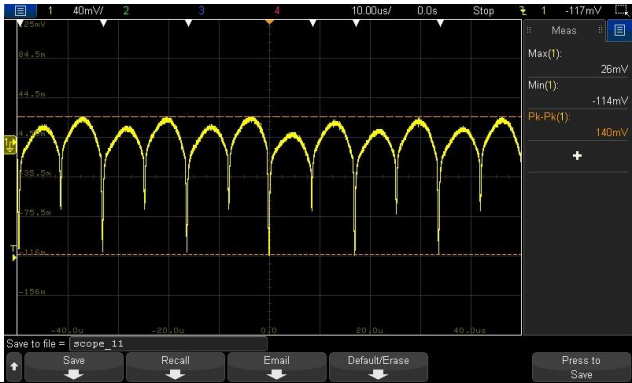
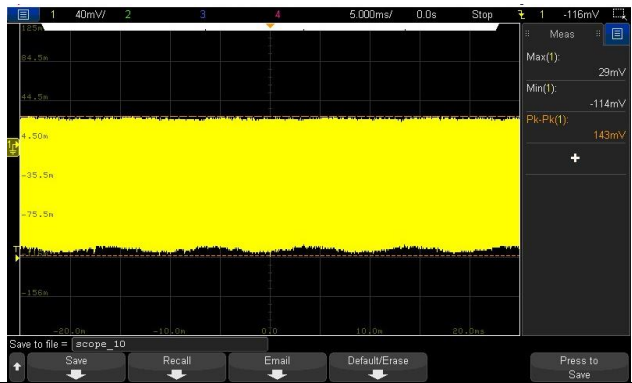
E.M.C. Test

■ RELIABILITY TEST

ENVIRONMENT TEST

DESIGN VERIFY TEST

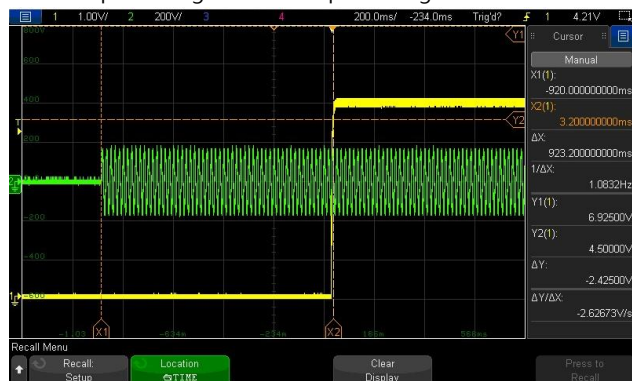
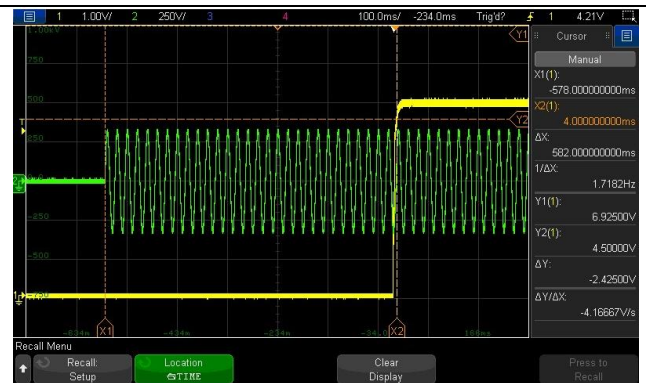
OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT VOLTAGE ADJUST RANGE	CH1: 4.7V~5.5V	I/P : 277 VAC I/P : 230 VAC I/P : 115 VAC O/P : MIN LOAD Ta : 25°C	4.458V~5.785V/277VAC 4.458V~5.785V/230VAC 4.458V~5.785V/115VAC
2	OUTPUT VOLTAGE TOLERANCE	V1: -2% ~ +2%	I/P: 85VAC~305VAC O/P:FULL~MIN. LOAD Ta:25°C	V1: -0.266% ~ 0.306%
3	LINE REGULATION	V1: -0.5% ~ +0.5%	I/P: 85VAC~ 305VAC O/P:FULL LOAD Ta:25°C	V1: -0.024% ~ 0.135%
4	LOAD REGULATION	V1: -1% ~ +1%	I/P: 230VAC O/P:FULL ~MIN LOAD Ta:25°C	V1: -0.266% ~ 0.306%
5	OVER/UNDERSHOOT TEST	<± 10%	I/P: 230VAC O/P:FULL LOAD / NO LOAD Ta:25°C	1.2%
6	RIPPLE & NOISE (Max)	V1: 200mVp-p	I/P:230VAC O/P:FULL LOAD Ta:25°C	140mVp-p / high frequency 143mVp-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°C	277VAC/399.2ms 230VAC/582.0ms 115VAC/923.2ms
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

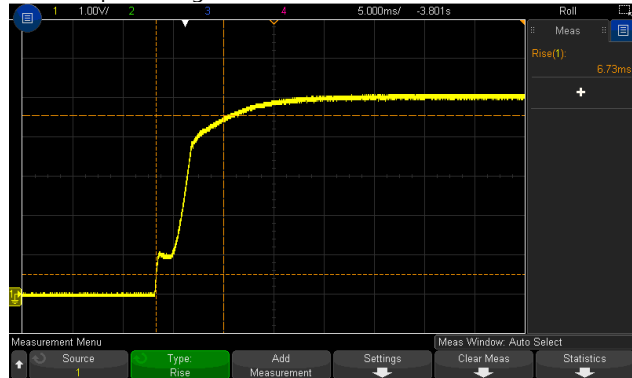
CH1: Output Voltage CH2: AC Input Voltage



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°C	277VAC/6.73ms 230VAC/6.79ms 115VAC/6.86ms
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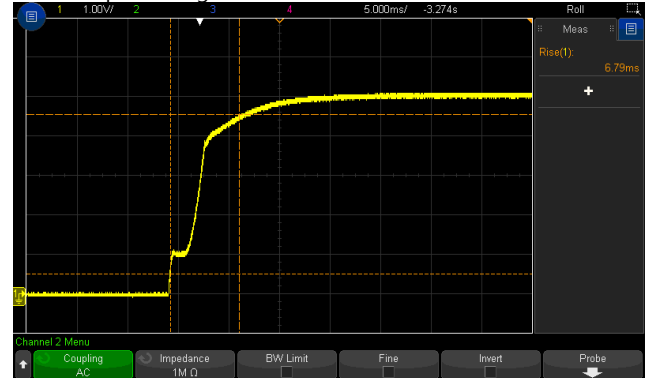
INPUT=277VAC/50HZ @ FULL LOAD

CH1: Output Voltage



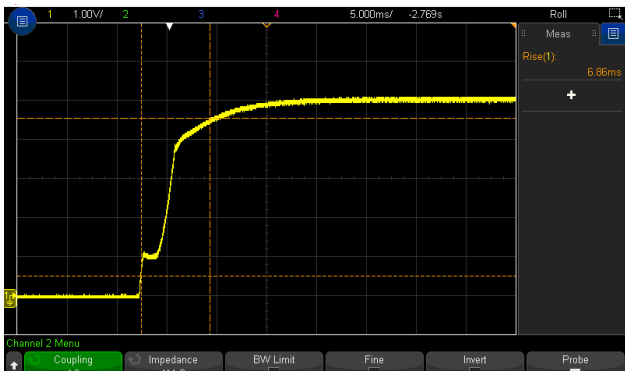
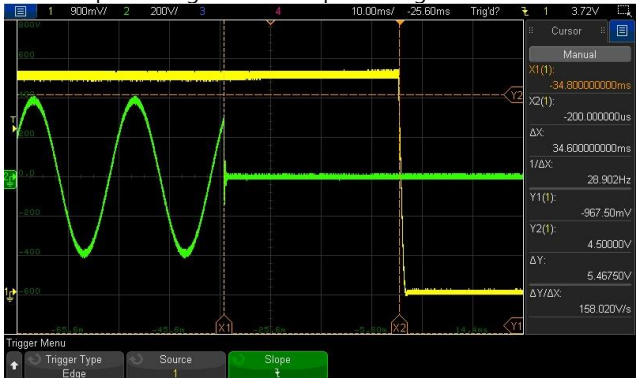
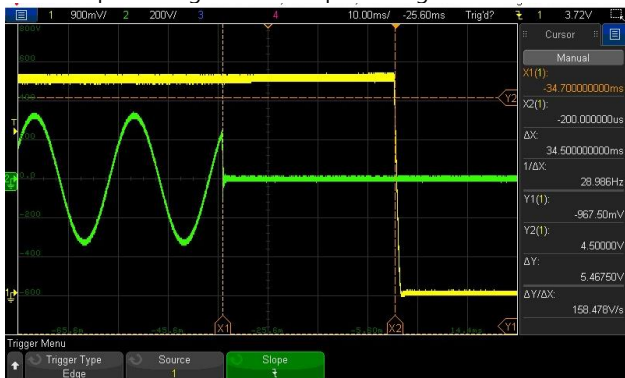
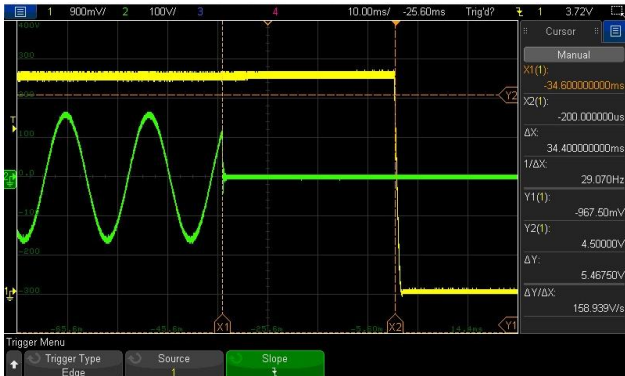
INPUT=230VAC/50HZ @ FULL LOAD

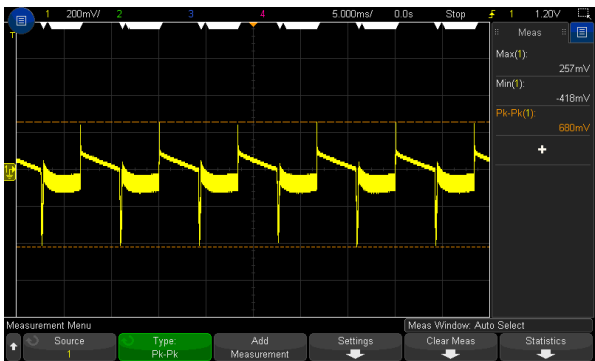
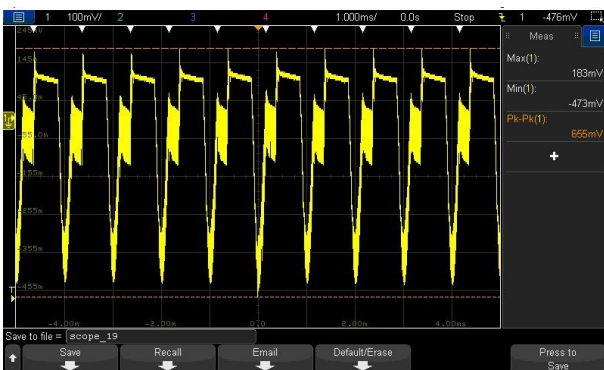
CH1: Output Voltage



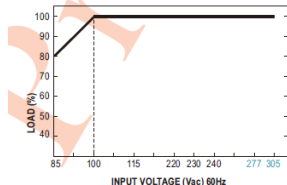
INPUT=115VAC/60HZ @ FULL LOAD

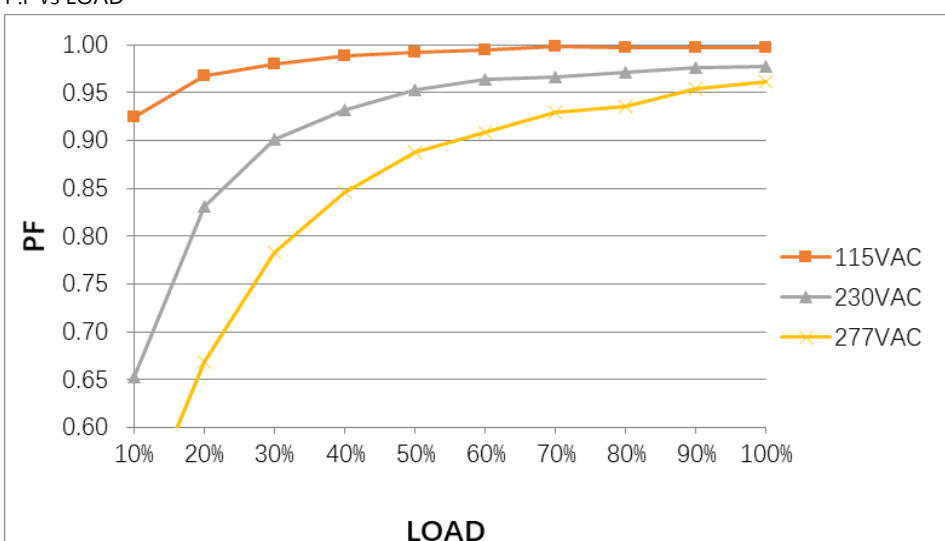
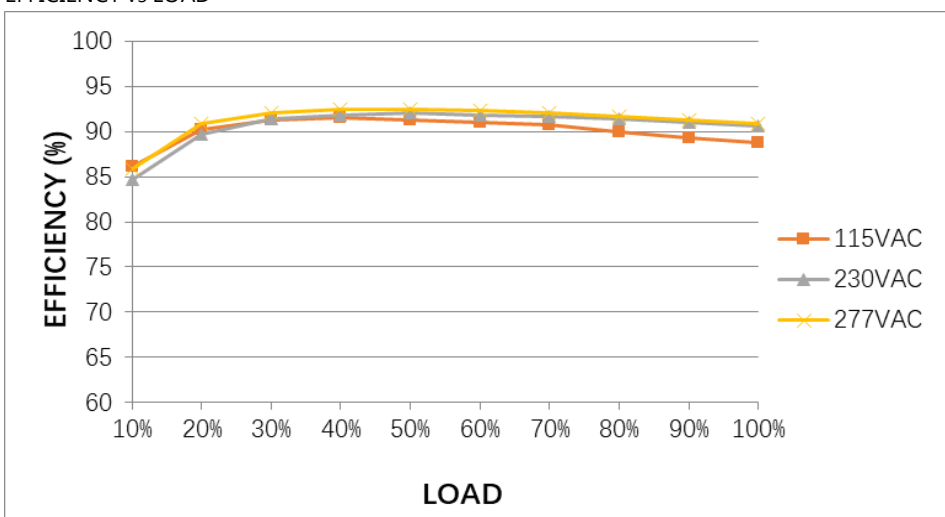
CH1: Output Voltage

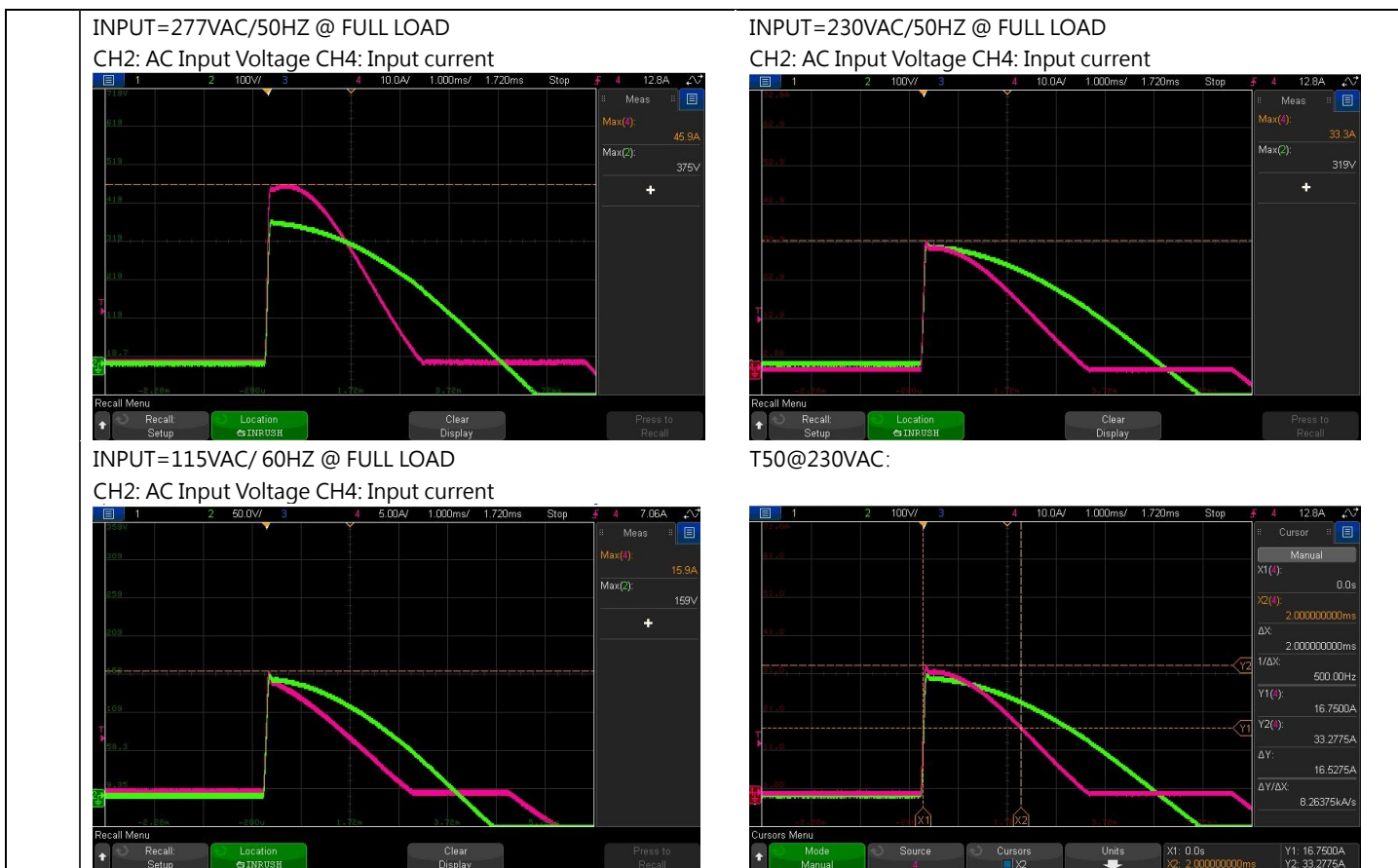
				
9	HOLD UP TIME (Typ.)	277VAC/16ms 230VAC/16ms 115VAC/16ms	I/P : 277 VAC I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	277VAC/34.6ms 230VAC/34.5ms 115VAC/34.4ms
	INPUT=277VAC/50HZ @ FULL LOAD CH1: Output Voltage CH2: AC Input Voltage  INPUT=230VAC/50HZ @ FULL LOAD CH1: Output Voltage CH2: AC Input Voltage  INPUT=115VAC/60HZ @ FULL LOAD CH1: Output Voltage CH2: AC Input Voltage 			
10	DYNAMIC LOAD	V1: 1000mVp-p	I/P: 230VAC O/P: (1) FULL/ MIN LOAD 50%DUTY / 120HZ (2) FULL/ MIN LOAD 50%DUTY / 1KHZ Ta:25°C	680mVp-p 655mVp-p

FULL / MIN LOAD 50%DUTY / 120HZ  FULL / MIN LOAD 50%DUTY / 1KHZ 				
11	TRANSIENT RECOVERY TIME	V1: 1000mVp-p <500us	I/P: 230VAC O/P:40% LOAD CHANGE 50%DUTY/120HZ 1.25A/us	350mVp-p

INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT						
1	INPUT VOLTAGE RANGE	85VAC~305VAC 120VDC~ 431VDC ■ Output Derating vs Input Voltage 	(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°C 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)	(1) 80.0V~305V/ FULL LOAD 80.0V~305V/ 80% LOAD (2) 109.3Vdc~431Vdc/FULL LOAD 109.1Vdc~431Vdc/80% LOAD (3) 109.2Vdc~431Vdc/FULL LOAD 109.1Vdc~431Vdc/80% LOAD TEST: OK						
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P: 85VAC~ 305VAC O/P:FULL~MIN LOAD Ta:25°C	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°C	I =2.0595A/ 277VAC I =2.4619A/ 230VAC I =4.9808A/ 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°C	For Earth: 199.1uA For touch: 28.0uA						
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 Ta : 25°C	TEST: <table><tr><td></td><td>Remote Power OFF</td><td>Remote Power ON</td></tr><tr><td>115VAC</td><td>0.356W</td><td>3.866W</td></tr></table>		Remote Power OFF	Remote Power ON	115VAC	0.356W	3.866W
	Remote Power OFF	Remote Power ON								
115VAC	0.356W	3.866W								

		Remote Power ON: 5W/115Vac 5W/230Vac 5W/277Vac		<table><tr><td>230VAC</td><td>0.478W</td><td>3.597W</td></tr><tr><td>277VAC</td><td>0.578W</td><td>3.380W</td></tr></table>	230VAC	0.478W	3.597W	277VAC	0.578W	3.380W																																						
230VAC	0.478W	3.597W																																														
277VAC	0.578W	3.380W																																														
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°C	PF=0.967/277VAC PF=0.9787/230VAC PF=0.9967/115VAC																																												
P.F vs LOAD  <table><caption>Approximate Power Factor (PF) vs Load Data</caption><thead><tr><th>Load (%)</th><th>115VAC</th><th>230VAC</th><th>277VAC</th></tr></thead><tbody><tr><td>10%</td><td>0.93</td><td>0.65</td><td>0.60</td></tr><tr><td>20%</td><td>0.97</td><td>0.83</td><td>0.68</td></tr><tr><td>30%</td><td>0.98</td><td>0.90</td><td>0.78</td></tr><tr><td>40%</td><td>0.99</td><td>0.93</td><td>0.85</td></tr><tr><td>50%</td><td>0.99</td><td>0.95</td><td>0.90</td></tr><tr><td>60%</td><td>1.00</td><td>0.96</td><td>0.93</td></tr><tr><td>70%</td><td>1.00</td><td>0.97</td><td>0.95</td></tr><tr><td>80%</td><td>1.00</td><td>0.97</td><td>0.96</td></tr><tr><td>90%</td><td>1.00</td><td>0.98</td><td>0.97</td></tr><tr><td>100%</td><td>1.00</td><td>0.98</td><td>0.96</td></tr></tbody></table>					Load (%)	115VAC	230VAC	277VAC	10%	0.93	0.65	0.60	20%	0.97	0.83	0.68	30%	0.98	0.90	0.78	40%	0.99	0.93	0.85	50%	0.99	0.95	0.90	60%	1.00	0.96	0.93	70%	1.00	0.97	0.95	80%	1.00	0.97	0.96	90%	1.00	0.98	0.97	100%	1.00	0.98	0.96
Load (%)	115VAC	230VAC	277VAC																																													
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7	EFFICIENCY(Typ.)	90%	I/P:230 VAC O/P:FULL LOAD Ta:25°C	90.54%																																												
EFFICIENCY vs LOAD  <table><caption>Approximate Efficiency (%) vs Load Data</caption><thead><tr><th>Load (%)</th><th>115VAC</th><th>230VAC</th><th>277VAC</th></tr></thead><tbody><tr><td>10%</td><td>86</td><td>85</td><td>86</td></tr><tr><td>20%</td><td>91</td><td>90</td><td>91</td></tr><tr><td>30%</td><td>92</td><td>91</td><td>92</td></tr><tr><td>40%</td><td>92</td><td>91</td><td>92</td></tr><tr><td>50%</td><td>92</td><td>91</td><td>92</td></tr><tr><td>60%</td><td>91</td><td>91</td><td>92</td></tr><tr><td>70%</td><td>91</td><td>91</td><td>92</td></tr><tr><td>80%</td><td>90</td><td>91</td><td>92</td></tr><tr><td>90%</td><td>89</td><td>91</td><td>91</td></tr><tr><td>100%</td><td>88</td><td>91</td><td>91</td></tr></tbody></table>					Load (%)	115VAC	230VAC	277VAC	10%	86	85	86	20%	91	90	91	30%	92	91	92	40%	92	91	92	50%	92	91	92	60%	91	91	92	70%	91	91	92	80%	90	91	92	90%	89	91	91	100%	88	91	91
Load (%)	115VAC	230VAC	277VAC																																													
10%	86	85	86																																													
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50%	92	91	92																																													
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70%	91	91	92																																													
80%	90	91	92																																													
90%	89	91	91																																													
100%	88	91	91																																													
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°C	I =45.9A/ 277VAC I =33.3A/ 230VAC I =15.9A/ 115VAC T50= 2000us/230V																																												

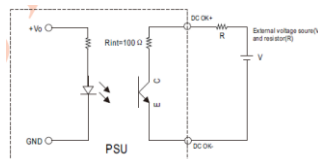


PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER LOAD PROTECTION	Protection type: 105%~150% rated output power; Constant current limiting for more than 5 seconds and then recovers automatically after fault condition is removed.	I/P: 305VAC I/P: 230VAC I/P: 100VAC O/P: TESTING Ta:25°C	TEST : 125.5%/305VAC; 125.3%/230VAC; 125.5%/100VAC; Protection type: Constant current limiting for more than 5 seconds and then recovers automatically after fault condition is removed
2	OVER VOLTAGE PROTECTION	5.8V~ 7.5V 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°C	6.65V/ 305VAC 6.65V/ 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 : <u>OK</u> 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 hiccup mode,recovers automatically after fault condition is removed	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 hiccup mode,recovers automatically after fault condition is removed
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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°C Test Result : <table><tr><td>AUX</td><td>TOLERANCE</td><td>RIPPLE</td></tr><tr><td>5V / 0.2A</td><td>-1.618% ~ 0%</td><td>24mVp-p</td></tr><tr><td>12V / 0.8A</td><td>-0.78% ~0%</td><td>26mVp-p</td></tr></table>	AUX	TOLERANCE	RIPPLE	5V / 0.2A	-1.618% ~ 0%	24mVp-p	12V / 0.8A	-0.78% ~0%	26mVp-p		
AUX	TOLERANCE	RIPPLE											
5V / 0.2A	-1.618% ~ 0%	24mVp-p											
12V / 0.8A	-0.78% ~0%	26mVp-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°C	TEST: <u>OK</u>									
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°C	TEST: <u>OK</u>									
4	DC OK SIGNAL	15Vdc/10mA resistive load 	I/P:230VAC O/P:FULL LOAD Ta:25°C	TEST: <u>OK</u>									
5	FAN CONTROL	(1)Fan ON/OFF control: RTH3 ≥ 50°C±10°C FAN ON RTH3 ≤ 40°C±10°C FAN OFF Ta:25°C	I/P:230VAC O/P:TESTING	TEST: (1) <u>OK</u> (2) <u>44.9</u> dB									

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 (7)0%→400% Load. Ta:25°C	Q2 VDS: (1) 485V (2) 501V (3) 485V (4) 481V (5) 481V (6) 485V (7) 489V Q3 VDS: (1) 461V (2) 469V (3) 461V (4) 461V (5) 461V (6) 461V (7) 465V
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. Ta:25°C	Q1 VDS: (1) 557V (2) 557V (3) 557V (4) 557V (5) 557V (6) 557V (7) 557V
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 Ta:25°C	(1) 490V (2) 490V (3) 490V (4) 490V
4	Diode Peak Voltage	Q100 / Q104 : Rated: 40V/120A	AC ON/OFF I/P: High-Line +3V =308 V VO=Vomax O/P: (1)Full Load (2)Output Short	Q100: VO=Vomax VDS: (1) 22.2V (2) 26.6V Q104: VO=Vomax VDS: (1) 22.8V (2) 26.8V

			(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 <u>VO=Vnormal</u> O/P: (1) Full Load Ta:25°C	(3) 26.6V (3) 30.5V (4) 23.6V (4) 22.8V (5) 22.2V (5) 22.8V (6) 26.0V (6) 26.0V (7) 25.0V (7) 26.4V (8) 18.2V (8) 18.0V <u>VO=Vnormal</u> <u>VO=Vnormal</u> (1) 20.8V (1) 21.6V
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 Ta:25°C	(1) 441V (2) 437V (3) 441V (4) 437V
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 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°C	U1 U101 (1) 14.7V (1) 11.3V (2) 14.7V (2) 11.2V (3) 14.7V (3) 11.4V (4) 14.7V (4) 11.4V (5) 14.6V (5) 11.3V U2 U7 (1) 14.3V (1) 19.6V (2) 14.3V (2) 19.6V (3) 13.9V (3) 19.6V (4) 13.9V (4) 19.2V (5) 14.0V (5) 19.6V U9 (1) 14.1V (2) 14.1V (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°C	I/P-O/P: 2.44 mA I/P-FG: 2.76 mA O/P-FG: 1.78 mA 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°C	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°C	10 mΩ

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	HARMONIC	BSEN/EN61000-3-2(IEC61000-3-2) ,GB 17625.1 ■ CLASS A	I/P:230VAC/50HZ O/P:FULL LOAD Ta:25°C	■ PASS
2	CONDUCTION	BS EN/EN55032(CISPR32), CNS 15936, GB/T 9254.1 CLASS B BS EN/EN55011 (CISPR11) CLASS B	I/P : 230 VAC (50HZ) O/P : FULL/50% LOAD Ta : 25°C	PASS Test by certified Lab
3	RADIATION	BS EN/EN55032(CISPR32), CNS 15936 CLASS B, GB/T 9254.1 BS EN/EN55011 (CISPR11) CLASS B	I/P : 230 VAC (50HZ) O/P : FULL LOAD Ta : 25°C	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°C	CRITERIA A
5	E.F.T	BS EN/EN61000-4-4 INPUT : 2KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	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°C	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-750-05 1. ROOM AMBIENT BURN-IN : 2HRS I/P : 230VAC O/P : FULL LOAD Ta=32.1°C 2. HIGH AMBIENT BURN-IN : 2HRS I/P : 230VAC O/P : FULL LOAD Ta=60.4°C																																																																																																																																										
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2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)	I/P : 230 VAC O/P : 124%LOAD Ta : 25°C	TEST : OK																																																																																									
3	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 305VAC/100VAC O/P : 80%/100 %LOAD Ta= -45°C/-35°C	TEST : OK																																																																																									
4	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 60°C/95 %R.H NO DAMAGE	I/P : 315 VAC O/P : FULL LOAD Ta= 60°C HUMIDITY= 95 %R.H	TEST : OK																																																																																									
5	TEMPERATURE COEFFICIENT	± 0.05%/°C(0~60°C)	I/P : 230 VAC O/P : FULL LOAD	± 0.002%/°C(0~60°C)																																																																																									
6	STORAGE TEMPERATURE TEST	-40~85°C	1. Thermal shock Temperature : -45°C~ +90°C 2. Temperature change rate : 25°C / 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°C	1. Thermal shock Temperature : -35°C~ +65°C 2. Temperature change rate : 25°C / 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°C
9	CAPACITOR LIFE CYCLE	SUPPOSE C105 IS THE MOST CRITICAL COMPONENT (1) I/P : 230VAC O/P : FULL LOAD Ta= 60°C LIFE TIME (2) I/P : 230VAC O/P : FULL LOAD Ta= 60°C LIFE TIME (3) I/P : 230VAC O/P : 75% LOAD Ta= 60°C LIFE TIME (4) I/P : 230VAC O/P : 50% LOAD Ta= 60°C LIFE TIME	(1) 1336688HRS (2) 23498HRS (3) 116421HRS (4) 632456HRS
10	MTBF	Conducted by Parts Stress Analysis Prediction 1047.1K hrs min. Telcordia SR-332 (Bellcore) ; 137.4K hrs min. MIL-HDBK-217F (25°C)	
11	Ongoing Reliability Test	I/P : 230VAC O/P : FULL LOAD TA=50°C Demonstration Mean Time Between Failure : 50,000 hours	

TEST RESULT	TESTER	REVIEW	APPROVAL
PASS	Yuwei	Liutt	Wangzd

2020.10.1 TAG-QA-009