



Test Report: NSP-500-12

500W 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

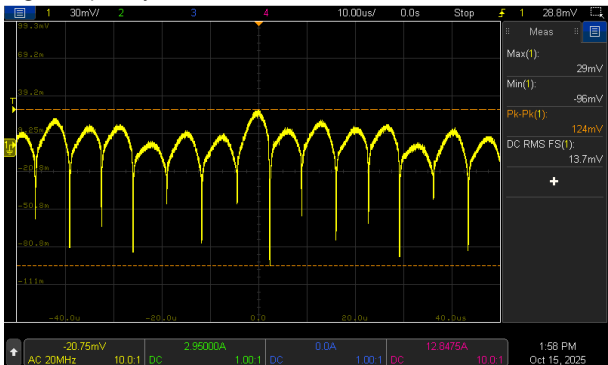
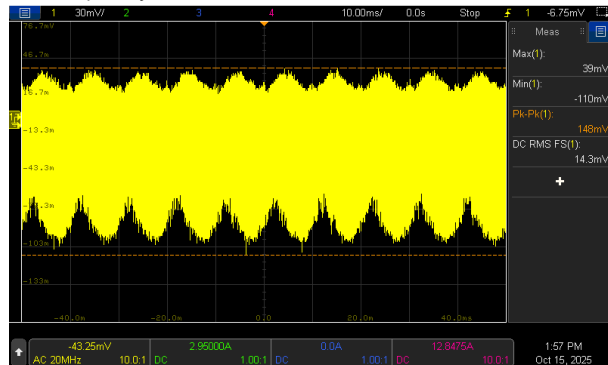
E.M.C. Test

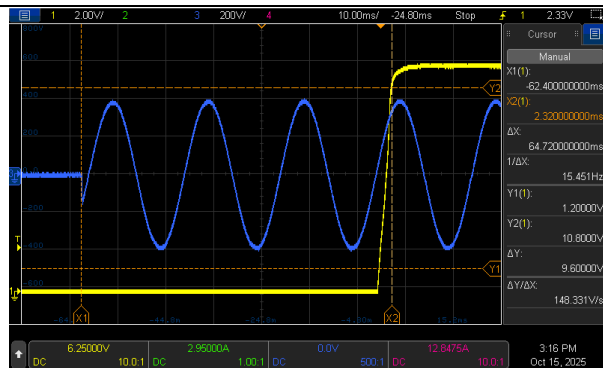
■ RELIABILITY TEST

ENVIRONMENT TEST

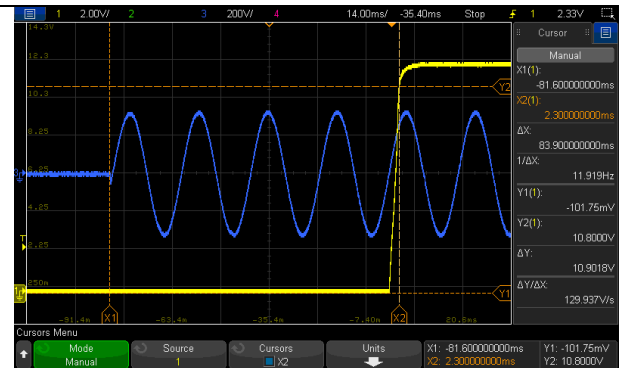
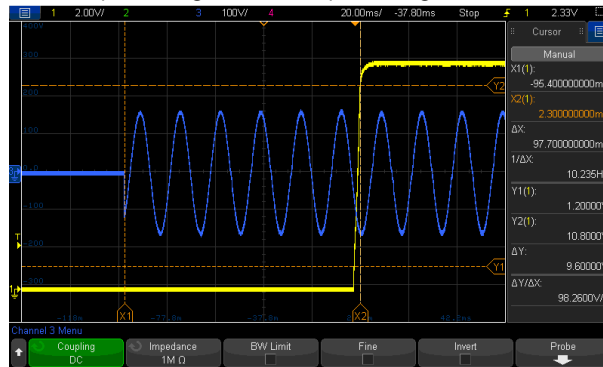
DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT VOLTAGE ADJUST RANGE	CH1: 10.8V~14V	I/P : 277 VAC I/P : 230 VAC I/P : 115 VAC O/P : MIN LOAD Ta : 25°C	10.537V~14.515V/277VAC 10.536V~14.517V/230VAC 10.536V~14.516V/115VAC
2	OUTPUT VOLTAGE TOLERANCE	V1: -2% ~ +2%	I/P: 85VAC~305VAC O/P:FULL~MIN. LOAD Ta:25°C	V1: -0.08% ~0.07%
3	LINE REGULATION	V1: -0.5% ~ +0.5%	I/P: 85VAC~ 305VAC O/P:FULL LOAD Ta:25°C	V1: 0% ~0.0333%
4	LOAD REGULATION	V1: -0.5% ~ +0.5%	I/P: 230VAC O/P:FULL ~MIN LOAD Ta:25°C	V1: -0.08% ~0.07%
5	OVER/UNDERSHOOT TEST	<± 5%	I/P: 230VAC O/P:FULL LOAD / NO LOAD/ PEAK LOAD Ta:25°C	4.87%
6	RIPPLE & NOISE (Max)	V1: 200mVp-p	I/P:230VAC O/P:FULL LOAD Ta:25°C	124mVp-p / high frequency 148mVp-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/64.72ms 230VAC/83.9ms 115VAC/97.7ms
INPUT=277VAC/50HZ @ FULL LOAD CH1: Output Voltage CH3: AC Input Voltage		INPUT=230VAC/50HZ @ FULL LOAD CH1: Output Voltage CH3: AC Input Voltage		

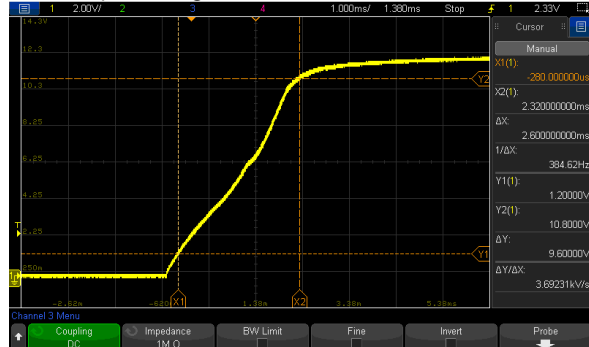


INPUT=115VAC/60HZ @ FULL LOAD
CH1: Output Voltage CH3: AC Input Voltage

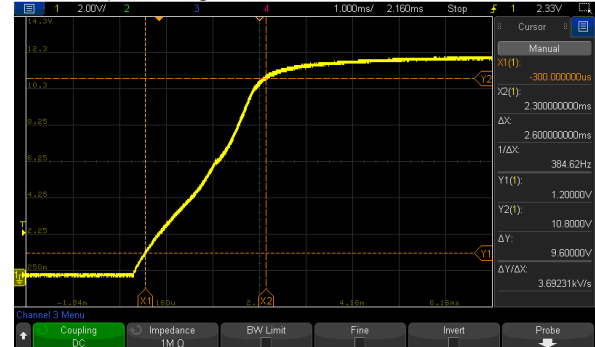


8	RISE TIME (Max)	277VAC/80ms 230VAC/80ms 115VAC/80ms	I/P : 277 VAC I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	277VAC/2.6ms 230VAC/2.6ms 115VAC/2.58ms
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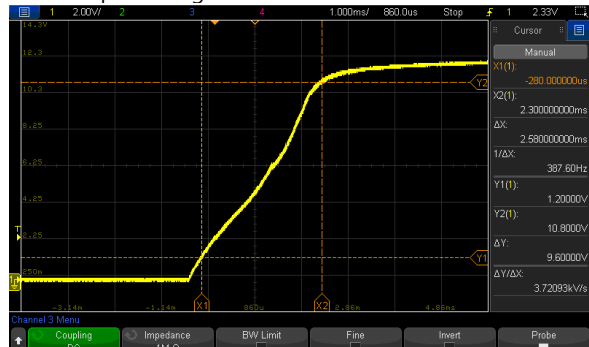
INPUT=277VAC/50HZ @ FULL LOAD
CH1: Output Voltage

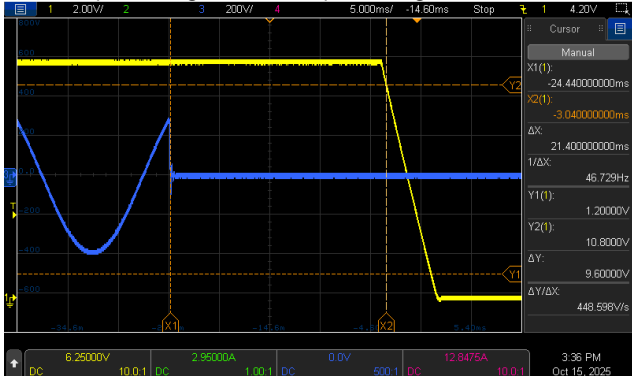
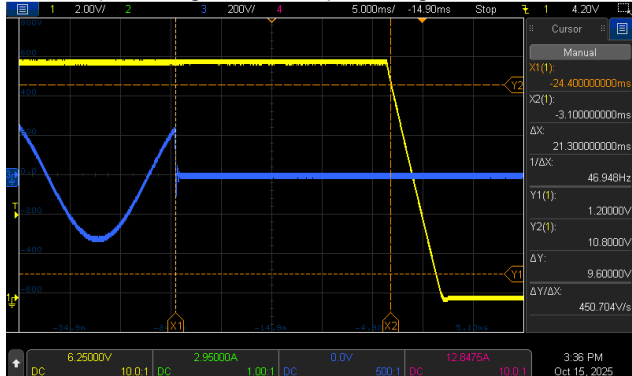
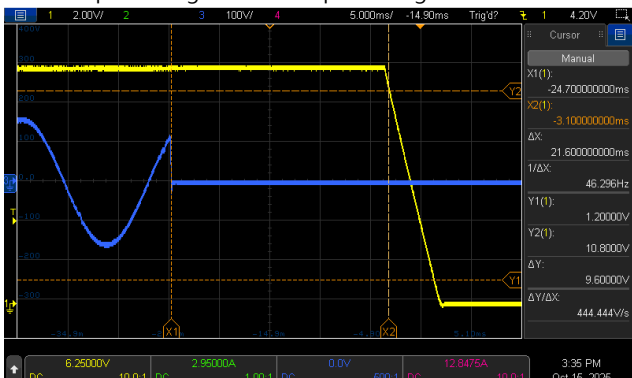
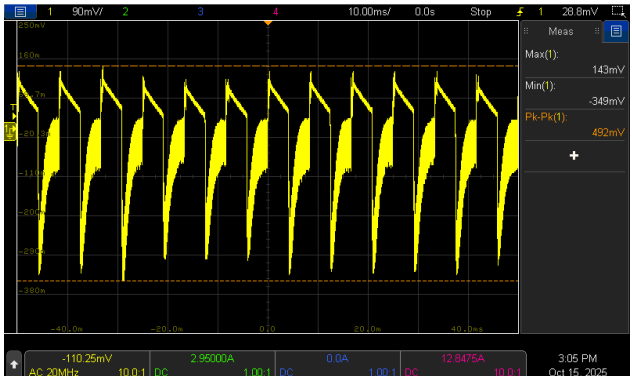
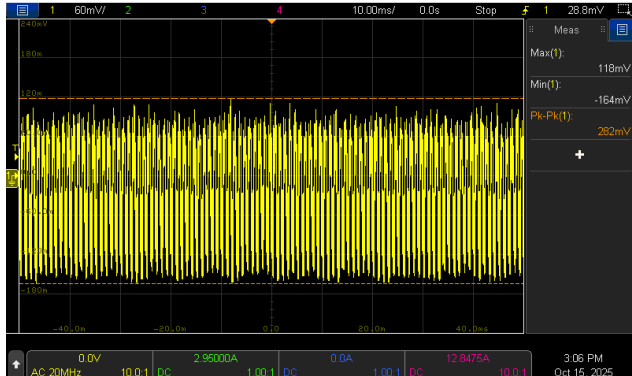


INPUT=230VAC/50HZ @ FULL LOAD
CH1: Output Voltage



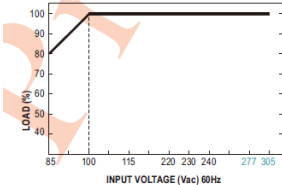
INPUT=115VAC/60HZ @ FULL LOAD
CH1: Output Voltage

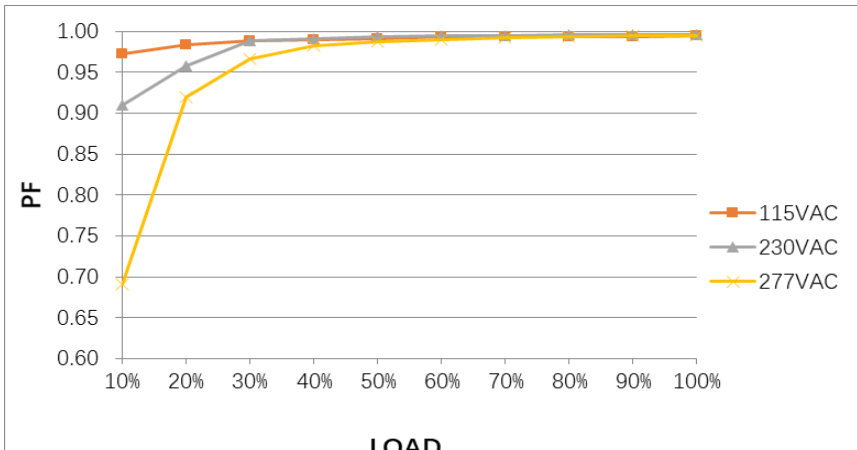
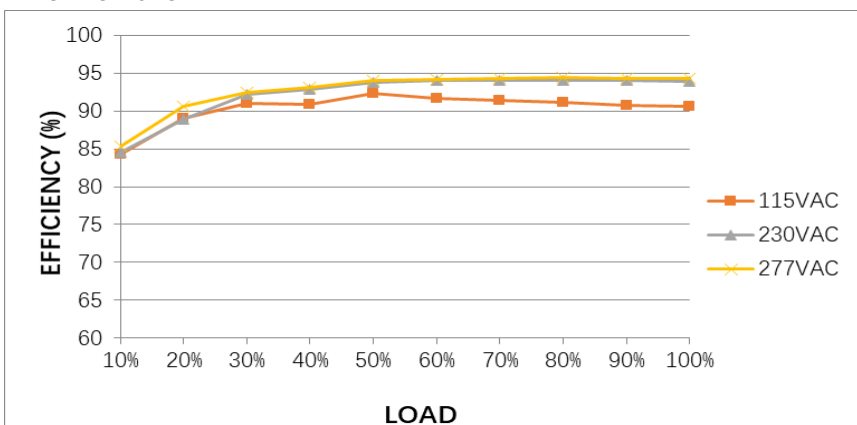
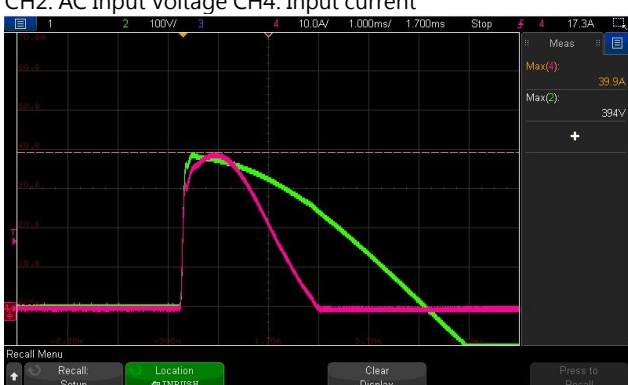
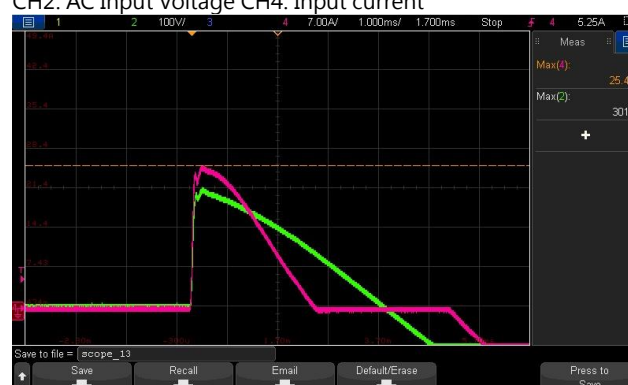


9	HOLD UP TIME (Typ.)	277VAC/16ms 230VAC/16ms 115VAC/16ms	I/P : 277 VAC I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	277VAC/21.4ms 230VAC/21.3ms 115VAC/21.6ms
INPUT=277VAC/50HZ @ FULL LOAD CH1: Output Voltage CH3: AC Input Voltage  INPUT=230VAC/50HZ @ FULL LOAD CH1: Output Voltage CH3: AC Input Voltage  INPUT=115VAC/60HZ @ FULL LOAD CH1: Output Voltage CH3: AC Input Voltage 				
10	DYNAMIC LOAD	V1: 1200mVp-p	I/P: 230VAC O/P: (1) FULL/ MIN LOAD 50%DUTY / 120HZ (2) FULL/ MIN LOAD 50%DUTY / 1KHZ Ta:25°C	492mVp-p 282mVp-p
FULL / MIN LOAD 50%DUTY / 120HZ  FULL / MIN LOAD 50%DUTY / 1KHZ 				

11	TRANSIENT RECOVERY TIME	V1: 1200mVp-p <500us	I/P: 230VAC O/P:40% LOAD CHANGE 50%DUTY/120HZ	214mVp-p
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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) 74V~305V/ FULL LOAD 74V~305V/ 80% LOAD (2) 104Vdc~431Vdc/FULL LOAD 104Vdc~431Vdc/80% LOAD (3)104 Vdc~431Vdc/FULL LOAD 104Vdc~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/ 2.2A 230V/ 2.6A 115V/ 5.3A	I/P : 277 VAC I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	I =1.932A/ 277VAC I =2.339A/ 230VAC I =4.842A/ 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	262.3uA for Earth 26.5uA for Touch												
5	NO LOAD CONSUMPTION	Remote Power OFF: 0.75W/115Vac 0.75W/230Vac 0.75W/277Vac Remote Power ON: 3.3W/115Vac 3W/230Vac 3W/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>0.480W</td><td>3.19W</td></tr><tr><td>230VAC</td><td>0.537W</td><td>2.59W</td></tr><tr><td>277VAC</td><td>0.569W</td><td>2.46W</td></tr></table>		Remote Power OFF	Remote Power ON	115VAC	0.480W	3.19W	230VAC	0.537W	2.59W	277VAC	0.569W	2.46W
	Remote Power OFF	Remote Power ON														
115VAC	0.480W	3.19W														
230VAC	0.537W	2.59W														
277VAC	0.569W	2.46W														
6	POWER FACTOR (Typ.)	0.9/ 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=0.9957/277VAC PF=0.9952/230VAC PF=0.9933/115VAC												

	P.F vs LOAD 			
7	EFFICIENCY(Typ.)	92%	I/P:230 VAC O/P:FULL LOAD Ta:25°C	93.9%
	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°C	I =39.9A/ 277VAC I =25.4A/ 230VAC I =13.1A/ 115VAC T50=1440us/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:

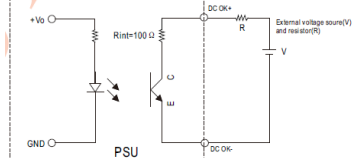
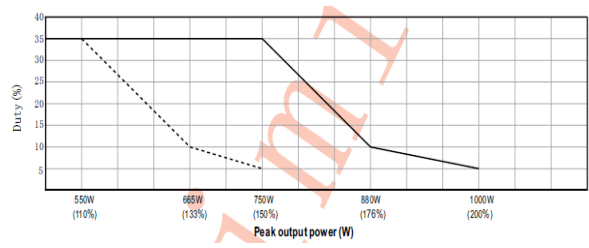


PROTECTION FUNCTION TEST

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($V_{out} > 30\%$), recovers automatically after fault condition is removed, or shut down o/p voltage when $V_{out} < 30\%$, AC re-power on to recover. Protection type: >200%(150%@100VAC) rated power, constant current limiting ($V_{out} > 30\%$) with auto-recovery after fault condition is removed, or shut down o/p voltage when $V_{out} < 30\%$, AC re-power on to recover.	I/P: 305VAC I/P: 230VAC I/P: 100VAC O/P: TESTING $T_a: 25^{\circ}\text{C}$	TEST : 134.76%/305VAC 134.76%/230VAC 134.28%/100VAC Protection type: Normally works within 105 ~ 200% rated output power for more than 5 seconds and then constant current limiting without shutdown($V_{out} > 30\%$), recovers automatically after fault condition is removed, or shut down o/p voltage when $V_{out} < 30\%$, AC re-power on to recover. 219.76%/305VAC 219.76%/230VAC 198.81 %/100VAC Protection type: constant current limiting ($V_{out} > 30\%$) with auto-recovery after fault condition is removed, or shut down o/p voltage when $V_{out} < 30\%$, AC re-power on to recover.
2	OVER VOLTAGE PROTECTION	15V~ 19V Protection type: Shut down o/p voltage, AC re-power on to recover	I/P: 305VAC I/P: 85VAC O/P: MIN LOAD $T_a: 25^{\circ}\text{C}$	17.1V/ 305VAC 17.1V/ 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, AC re-power on to recover	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, AC re-power on to recover

4	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE Protection type: Constant current limiting for more than 5 seconds ($V_{out} < 30\%$) 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 ($V_{out} < 30\%$) 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
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CONTROL FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	REMOTE CONTROL	Power ON: $RC+ \sim RC- : 0 \sim 0.8V_{dc}$ or open Power OFF: $RC+ \sim RC- : 3.3 \sim 10V_{dc}$	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	TEST: <u>OK</u>
2	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°C	TEST: <u>OK</u>
3	DC OK SIGNAL	15Vdc/10mA resistive load 	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	TEST: <u>OK</u>
4	FAN CONTROL & NOISE	(1) Fan ON/OFF control: $RTH4 \geq 50^{\circ}C \pm 10^{\circ}C$ FAN ON $RTH4 \leq 40^{\circ}C \pm 10^{\circ}C$ FAN OFF (2) Fan & NOISE: $< 45dB$	I/P: 230VAC O/P: FULL LOAD	TEST: (1) <u>OK</u> (2) <u>44.9</u> dB Ta: 25°C
5	PEAK Power	I/P: 100/305VAC O/P:  -----100VAC ————200VAC		TEST: <u>OK</u>

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: 24A/ 650V	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°C	Q2 VDS: (1) 530V (2) 514V (3) 534V (4) 538V (5) 538V (6) 538V (7) 509V (8) 538V	Q3 VDS: (1) 497V (2) 493V (3) 497V (4) 497V (5) 493V (6) 497V (7) 497V (8) 509V
2	P.F.C Transistor (D to S) or (C to E) Peak Voltage	Q1 : Rated: 34A /650V	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°C	Q1 VDS: (1) 469V (2) 453V (3) 461V (4) 461V (5) 469V (6) 453V (7) 449V (8) 489V	
3	P.F.C DIODE	D5 : Rated: 10A/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°C	(1) 467V (2) 463V (3) 463V (4) 463V (5) 475V	
4	Diode Peak Voltage	Q100 / Q104: Rated: 100A /60V	AC ON/OFF I/P: High-Line +3V =308 V <u>VO=Vomax</u>	Q100: <u>VO=Vomax</u> VDS:	Q104: <u>VO=Vomax</u> 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).NO LOAD (9) Peak Load <u>VO=Vnormal</u> O/P: (1) Full Load Ta:25°C	(1) 42.2V (2) 42.5V (3) 42.2V (4) 42.2V (5) 42.5V (6) 41.7V (7) 42.0V (8) 39.4V (9) 43.4V <u>VO=Vnormal</u> (1) 40.0V (1) 39.1V (2) 38.9V (3) 39.1V (4) 38.6V (5) 38.6V (6) 38.6V (7) 41.7V (8) 36.6V (9) 41.4V <u>VO=Vnormal</u> (1) 34.6V
5	Input Capacitor Voltage	C5 : Rated: 100 μ /450V IC U2 : Rated : 4.5V~18V O/P IC U101 : Rated : 4.75V~38V IC U103 : Rated : 3~30 V IC U104 : Rated : 3V ~30V	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°C	(1) 441 V (2) 437V (3) 437V (4) 437V (5) 446V (6) 441V
6	Control IC Voltage Test		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/U2 (1) 14.1V (2) 14.4V (3) 14.5V (4) 14.2V (5) 14.1V U101 (1) 15.6V (2) 15.3V (3) 15.3V (4) 15.3V (5) 14.2V U103/U104 (1) 12.6V (2) 12.6V (3) 12.6V (4) 12.6V (5) 12.6V

■ 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: 2.35 mA I/P-FG: 3.22 mA O/P-FG: 1.592 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: 40850 MΩ O/P-FG: 12790 MΩ NO DAMAGE
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40A / 2min Ta:25°C	5mΩ

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°C	■ PASS □ FAIL
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°C	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°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 □ CRITERIA B
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-500-12 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta= 23.6 °C 2. HIGH AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta= 59.4 °C																																																																																																																																						
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			NO	Position	ROOM AMBIENT Ta=23.6 °C	HIGH AMBIENT Ta=59.4°C
			33	Q105	58.2°C	88.0°C
			34	Q102	56.7°C	88.1°C
			35	J103	52.7°C	83.5°C
			36	U101	59.8°C	89.6°C
			37	T2	37.8°C	69.2°C
			38	C136	26.4°C	61.4°C
			39	VR1	37.7°C	71.2°C
			40	U6	42.9°C	85.8°C
			41	D30	38.6°C	74.2°C
			42	D101	42.8°C	75.4°C
			43	D108	39.6°C	71.5°C
			44	U103	40.5°C	74.7°C
			45	Q110	33.7°C	75.1°C
			46	U104	31.4°C	65.8°C
			47	C181	32.5°C	66.0°C
			48	C125	29.7°C	66.1°C
			49	C104	28.0°C	64.6°C
50	C180	31.5°C	64.9°C			
2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)		I/P : 230 VAC O/P : 140%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	± 0.006%/°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 C110 IS THE MOST CRITICAL COMPONENT (1) I/P : 230VAC O/P : FULL LOAD Ta= 25 °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) 18031423HRS (2) 399052HRS (3) 853159HRS (4) 1482620HRS
10	MTBF	Conducted by Parts Stress Analysis Prediction 1213.4K hrs min. Telcordia SR-332 (Bellcore) ; 212.1K 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

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