



Test Report: NSP-200-60

200W 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

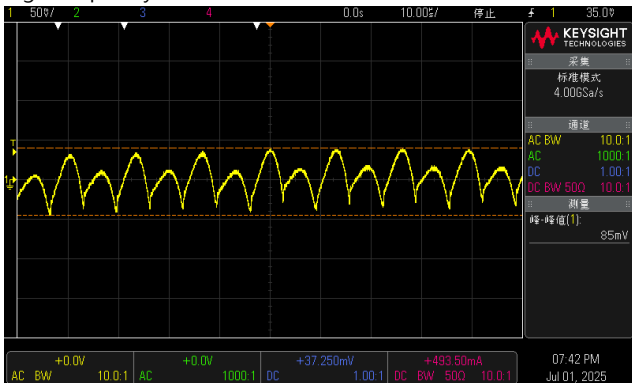
E.M.C. Test

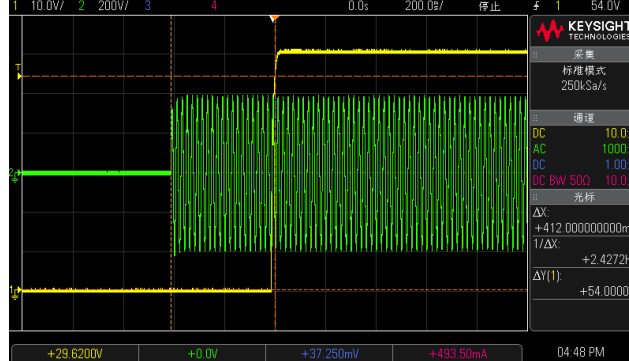
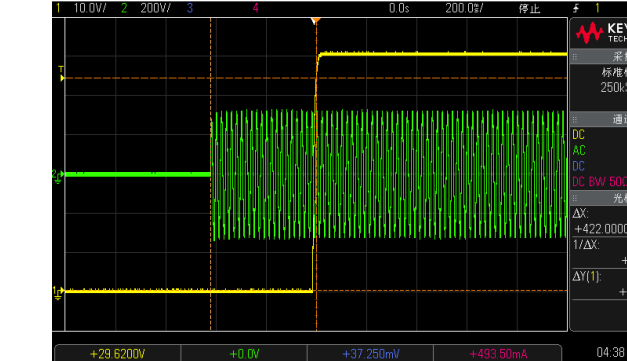
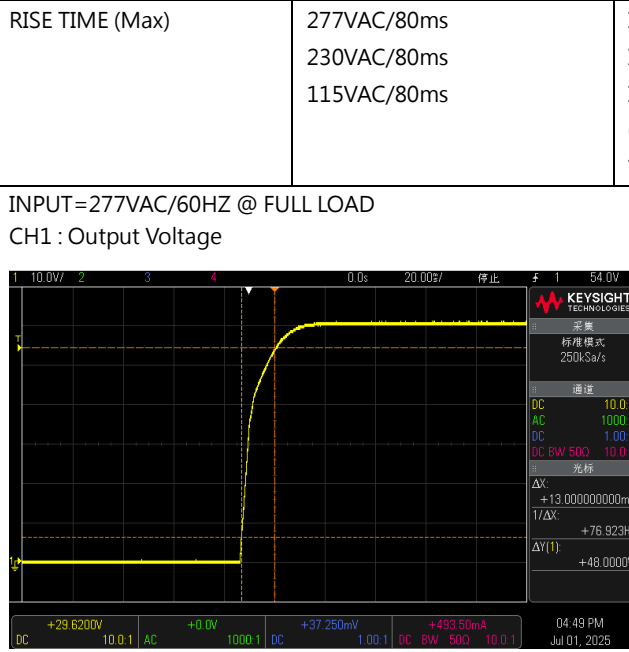
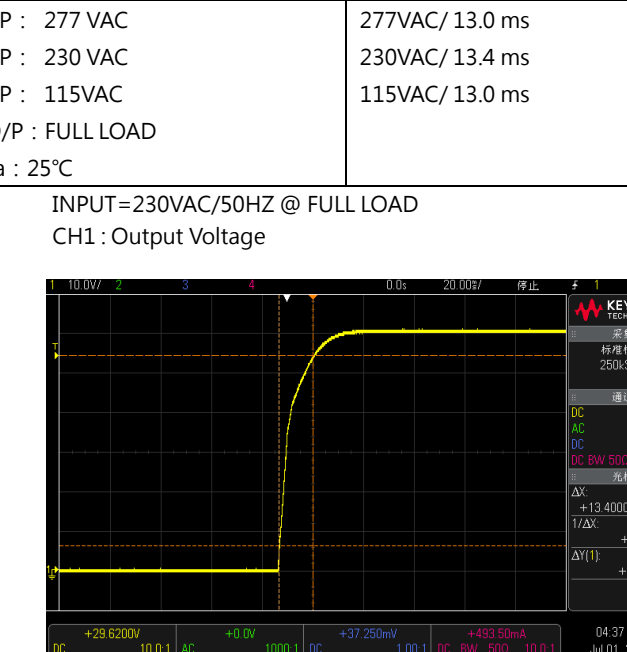
■ RELIABILITY TEST

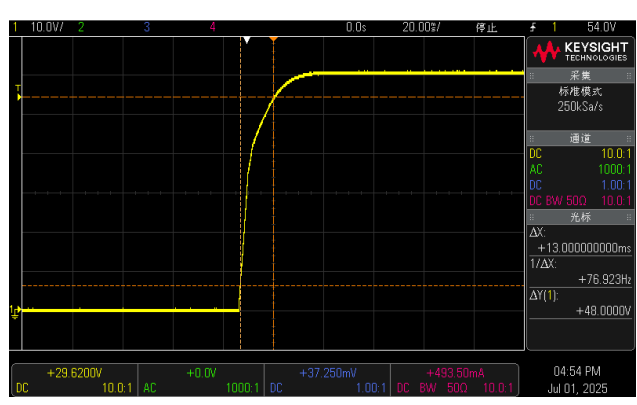
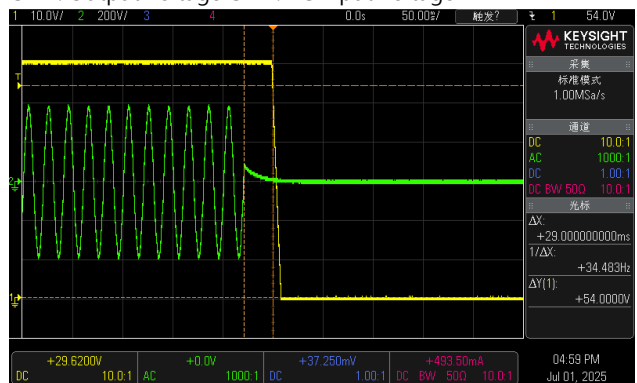
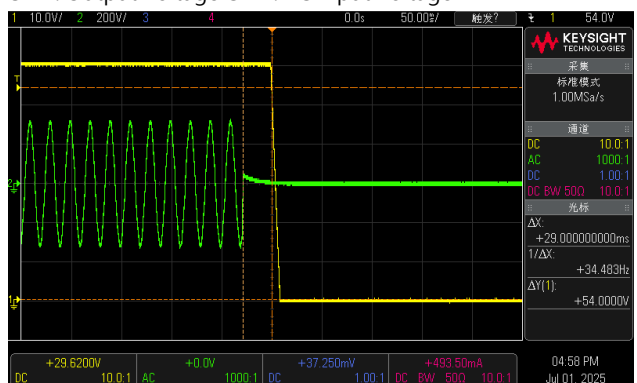
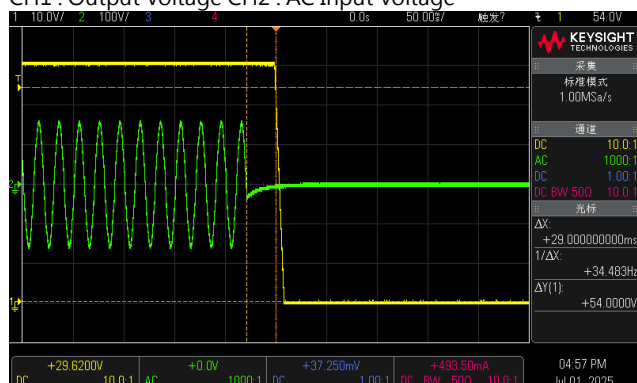
ENVIRONMENT TEST

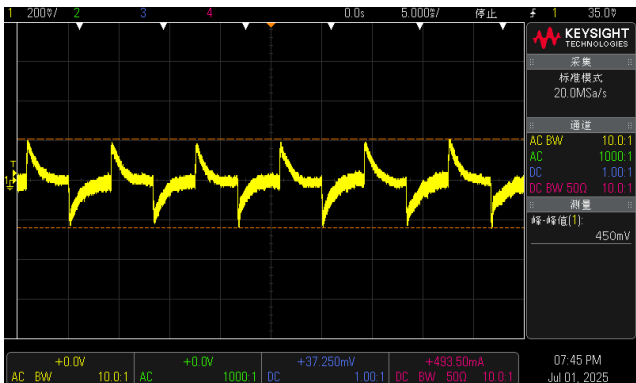
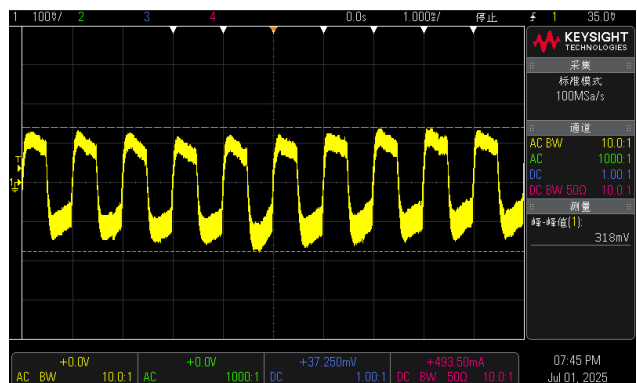
DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT VOLTAGE ADJUST RANGE	CH1: 54 V ~ 72 V	I/P : 230 VAC O/P : MIN LOAD Ta : 25°C	CH1 : 52.0 V ~ 73.8 V/ 230 VAC
2	OUTPUT VOLTAGE TOLERANCE	V1: -1.0 % ~ +1.0 %	I/P: 85VAC /305VAC O/P:FULL/ MIN. LOAD Ta:25°C	V1: - 0.28 % ~ + 0.62 %
3	LINE REGULATION	V1: -0.5 % ~ +0.5 %	I/P: 85VAC ~ 305VAC O/P:FULL LOAD Ta:25°C	V1: -0.00 % ~ + 0.03 %
4	LOAD REGULATION	V1: -0.5 % ~ +0.5 %	I/P: 230VAC O/P:FULL ~MIN LOAD Ta:25°C	V1: -0.02 % ~ + 0.30 %
5	OVER/UNDERSHOOT TEST	< ± 5 %	I/P: 230VAC O/P:FULL LOAD Ta:25°C	V1 : 1.03 %
6	RIPPLE & NOISE (Max)	V1: 300 mVp-p	I/P: 230 VAC O/P: FULL LOAD Ta:25°C	V1: 133 mVp-p
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°C	277VAC/ 412 ms 230VAC/ 422 ms 115VAC/ 384 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	

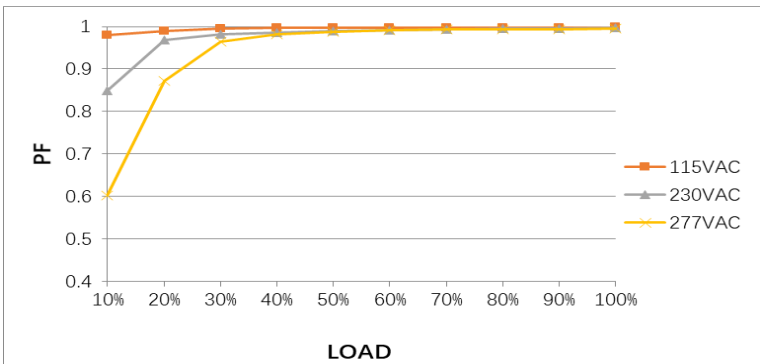
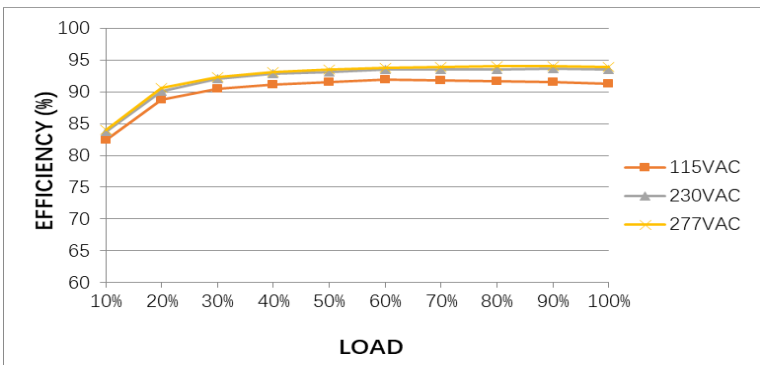
	 INPUT=115VAC/60HZ @ FULL LOAD CH1 : Output Voltage CH2 : AC Input Voltage	
8	RISE TIME (Max) 277VAC/80ms 230VAC/80ms 115VAC/80ms	I/P : 277 VAC I/P : 230 VAC I/P : 115VAC O/P : FULL LOAD Ta : 25°C 277VAC/ 13.0 ms 230VAC/ 13.4 ms 115VAC/ 13.0 ms
	INPUT=277VAC/60HZ @ FULL LOAD CH1 : Output Voltage 	INPUT=230VAC/50HZ @ FULL LOAD CH1 : Output Voltage  INPUT=115VAC/60HZ @ FULL LOAD CH1 : Output Voltage

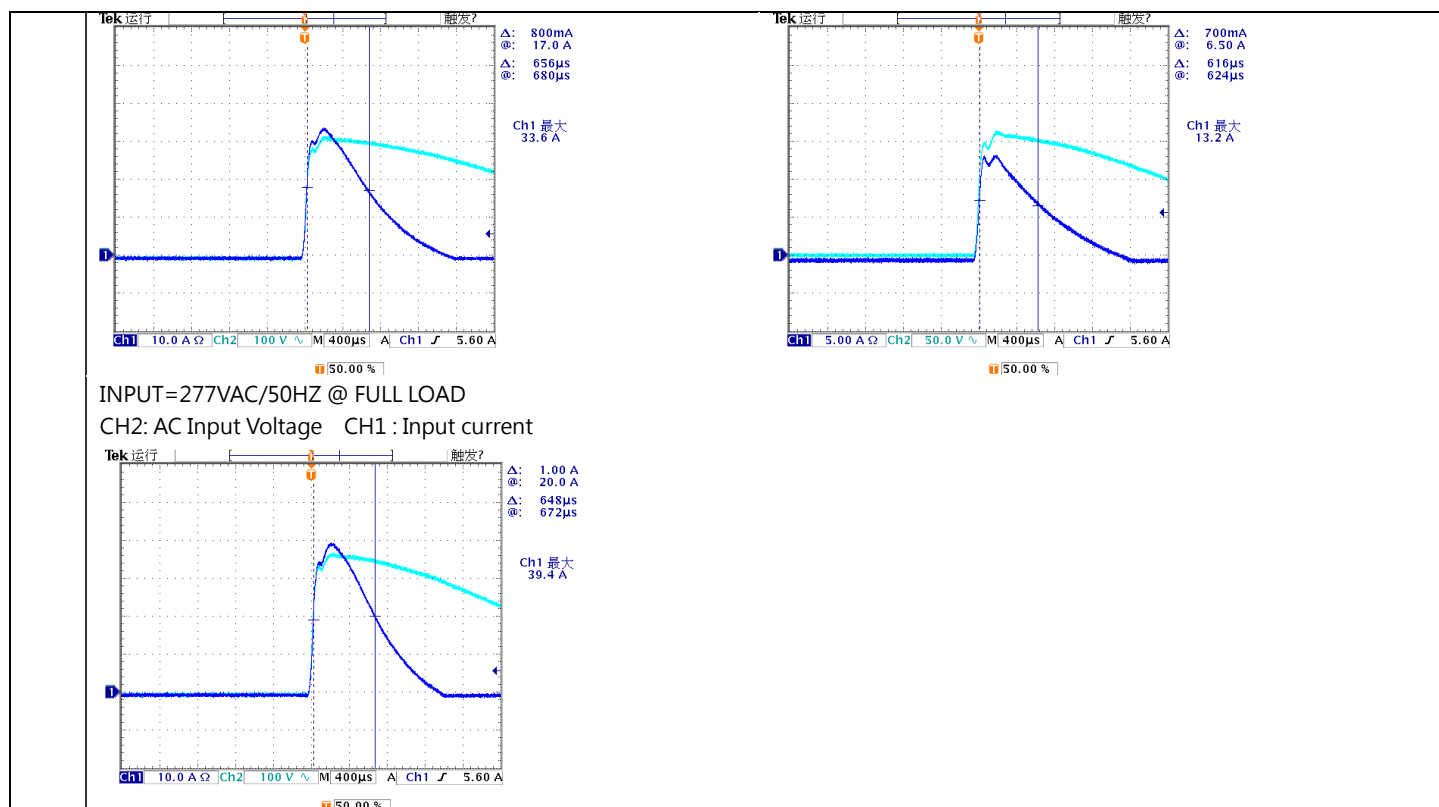
				
9	HOLD UP TIME (Typ.)	277VAC/16ms 230VAC/16ms 115VAC/16ms	I/P : 277VAC I/P : 230 VAC I/P : 115VAC O/P : FULL LOAD Ta : 25°C	277VAC/ 29 ms 230VAC/ 29 ms 115VAC/ 29 ms
INPUT=277VAC/60HZ @ FULL LOAD CH1 : Output Voltage CH2 : AC Input Voltage  INPUT=230VAC/50HZ @ FULL LOAD CH1 : Output Voltage CH2 : AC Input Voltage  INPUT=115VAC/60HZ @ FULL LOAD CH1 : Output Voltage CH2 : AC Input Voltage 				
10	DYNAMIC LOAD	V1: 6000 mVp-p	I/P: 230VAC O/P: (1)FULL /50% LOAD 50%DUTY / 120HZ (2)FULL /50% LOAD 50%DUTY / 1KHZ Ta:25°C	450 mVp-p 318 mVp-p

FULL /50% LOAD 50%DUTY / 120HZ  FULL /50% LOAD 50%DUTY / 1KHZ 				
11	TRANSIENT RECOVERY TIME	V1: 6000 mVp-p <500us	I/P: 230VAC O/P:40% LOAD CHANGE 50%DUTY/120HZ 1.25A/us	390 mVp-p 400 us

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°C 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)	(1) 85 V~305V (2) 120Vdc~ 431 Vdc/FULL LOAD 120 Vdc~ 431Vdc/50% LOAD (3) 120Vdc~ 431Vdc/FULL LOAD 120Vdc~431 Vdc/50% 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.)	277VAC/ 0.80 A 230VAC/ 1.00 A 115VAC/ 2.00 A	I/P : 277 VAC I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	I =0.76 A/ 277VAC I =0.92 A/ 230VAC I =1.88 A/ 115VAC
4	LEAKAGE CURRENT	<350μA / 277 VAC touch current<100μA (Peak)/ 277 VAC	I/P : 277 VAC O/P : Min LOAD Ta : 25°C	160μA for Earth 58μA for touch
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	PF=0.995 / 277VAC PF=0.997 / 230VAC PF=0.999 / 115VAC

			O/P : FULL LOAD Ta : 25°C	
	P.F vs LOAD 			
6	EFFICIENCY(Typ.)	94.0 %	I/P:230 VAC O/P:FULL LOAD Ta:25°C	94.43 %
	EFFICIENCY vs LOAD 			
7	NO LOAD POWER CONSUMPTION(Typ.)	Remote Power ON : 3W/277VAC 3W/230VAC 3W/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°C	Remote Power ON : 1.474 W/ 277VAC 1.496 W/ 230VAC 1.687 W/ 115VAC Remote Power OFF : 0.373 W/ 277VAC 0.300 W/ 230VAC 0.127 W/ 115VAC
8	INRUSH CURRENT(Typ.)	115V/23A 230V/40A 277V/50A COLD START	I/P : 115 VAC I/P : 230 VAC I/P : 277 VAC O/P : FULL LOAD Ta : 25°C	I =13.2A/ 115VAC T50=616us/115V I =33.6A/ 230VAC T50=656us/230V I =39.4A/ 277VAC T50=648us/277V
	INPUT=230VAC/50HZ @ FULL LOAD CH2 : AC Input Voltage CH1 : Input current		INPUT=115VAC/50HZ @ FULL LOAD CH2: AC Input Voltage CH1 : Input current	

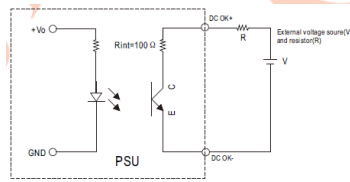
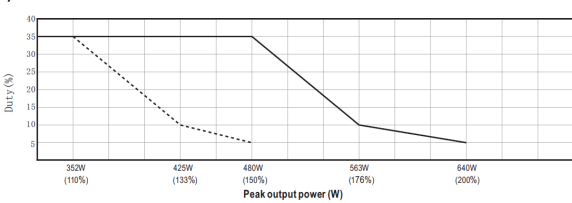


PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER LOAD PROTECTION	105%~ 200% 1、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 2、>200% rated power, constant current limiting ($V_{out}>30\%$)with auto-recovery after fault condition is removed,	I/P: 305VAC I/P: 230VAC I/P: 85VAC O/P:TESTING Ta:25°C	122.02 %/ 305VAC 122.02 %/ 230VAC 122.02 %/ 85VAC PROTECTION TYPE : 1、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 2、>200% rated power, constant current limiting ($V_{out}>30\%$)with auto-recovery after fault condition is removed,
2	OVER VOLTAGE PROTECTION	73 V ~ 86 V	I/P: 305VAC I/P: 230VAC I/P: 85VAC O/P:MIN LOAD Ta:25°C	80.1 V / 305 VAC 80.1 V / 230 VAC/ 42 80.1 V / 85 VAC PROTECTION TYPE : Shut down o/p voltage, re-power on to recover

3	OVER TEMPERATURE PROTECTION	Protection type : Shut down o/p voltage, re-power on to recover	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°C	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						
1	REMOTE CONTROL	Power ON: Pin5 and Pin6 open or keep 0~0.8Vdc Power OFF: Pin5 and Pin6 keep 3.3~10Vdc	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 <table border="1"><tr><td>PSU Vo Status</td><td>Photo transistor</td></tr><tr><td>POWER ON</td><td>Conduct(Low impedance)</td></tr><tr><td>POWER OFF</td><td>Open(High impedance)</td></tr></table> Optocoupler Rating(max.) 15Vdc/10mA resistive load 	PSU Vo Status	Photo transistor	POWER ON	Conduct(Low impedance)	POWER OFF	Open(High impedance)	I/P:230VAC O/P:FULL LOAD Ta:25°C	TEST: <u>OK</u>
PSU Vo Status	Photo transistor									
POWER ON	Conduct(Low impedance)									
POWER OFF	Open(High impedance)									
4	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	Q6 Rated : 15 A/ 650 V	AC ON/OFF I/P:High-Line +3V =308V VDS: O/P: (1)Full Load (2)Dynamic Load Full Load/ Min. Load 90%Duty/5KHz (3)Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz (4)0%→400% Load. Ta:25°C	VDS: (1) 467 V (2) 467 V (3) 467 V (4) 495 V
2	P.F.C Transistor (D to S) or (C to E) Peak Voltage	Q1 Rated : 20A/ 600V	I/P:High-Line +3V =308V AC ON/OFF O/P: (1)Full Load (2)Dynamic Load Full Load/ Min. Load 90%Duty/5KHz (3)Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz (4)0%→400% Load. Ta:25°C	VDS: (1) 520 V (2) 516 V (3) 512 V (4) 528 V
3	Diode Peak Voltage	D101 Rated : 20A/200V	AC ON/OFF I/P:High-Line +3V =308 V O/P: (1)Full Load (2) Dynamic Load 100% Load/ Min. Load 90%Duty/5KHz (3)Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz (4)0%→400% Load. Ta:25°C	D101: VDS: (1) 178 V (2) 178 V (3) 180 V (4) 180 V
4	Control IC Voltage Test	PWM IC U2 Rated 9.6V~ 36V O/P IC U101 Rated : 3.0V~ 30V	AC ON/OFF I/P:High-Line +3V =308 V O/P(1)FULL LOAD (2) Output Short (3)O.L.P (4)NO LOAD VRmin(LOW LINE) Ta:25°C	U2 (1) 19.0 V (2) 19.0 V (3) 19.0 V (4) 10.7 V U101 (1) 11.7 V (2) 10.7 V (3) 11.5 V (4) 5.82 V

■ 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: 1.93 mA I / P - F G : 2.25 mA O / P - F G : 1.60 m A NO DAMAGE
2	ISOLATION RESISTANCE	I/P-O/P: 500 VDC>100MΩ I / P - F G : 500 VDC>100MΩ O/P-FG: 500 VDC >100MΩ	I/P-O/P: 500 VDC I / P - F G : 500 VDC O/P-FG: 500 VDC Ta:25°C	I/P - O/P: >9999 MΩ I / P - F G : >9999 MΩ O / P - F G : >9999 MΩ NO DAMAGE
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40A / 2min Ta:25°C	8 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°C	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°C	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°C	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°C	CRITERIA A
5	E.F.T	EN61000-4-4 INPUT : 2KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	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°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-200-48 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta= 29.7 °C 2. HIGH AMBIENT BURN-IN : HRS I/P : 230VAC O/P : FULL LOAD Ta= 63.0 °C <table><tr><th>NO</th><th>Position</th><th>ROOM AMBIENT Ta=29.7 °C</th><th>HIGH AMBIENT Ta=63.0°C</th></tr><tr><td>1</td><td>ZNR1</td><td>52.5°C</td><td>86.0°C</td></tr><tr><td>2</td><td>LF1</td><td>54.1°C</td><td>87.7°C</td></tr><tr><td>3</td><td>C2</td><td>54.4°C</td><td>87.7°C</td></tr><tr><td>4</td><td>LF2</td><td>58.0°C</td><td>91.0°C</td></tr><tr><td>5</td><td>RY1</td><td>68.4°C</td><td>100.9°C</td></tr><tr><td>6</td><td>RTH1</td><td>58.0°C</td><td>90.7°C</td></tr><tr><td>7</td><td>C10</td><td>63.8°C</td><td>97.0°C</td></tr><tr><td>8</td><td>L1</td><td>77.4°C</td><td>111.5°C</td></tr><tr><td>9</td><td>Q1</td><td>60.9°C</td><td>94.6°C</td></tr><tr><td>10</td><td>D8</td><td>57.6°C</td><td>91.0°C</td></tr><tr><td>11</td><td>C5</td><td>58.9°C</td><td>91.0°C</td></tr><tr><td>12</td><td>C14</td><td>57.3°C</td><td>90.6°C</td></tr><tr><td>13</td><td>Q5</td><td>54.1°C</td><td>88.1°C</td></tr><tr><td>14</td><td>U2</td><td>64.6°C</td><td>97.4°C</td></tr><tr><td>15</td><td>C36</td><td>52.3°C</td><td>85.0°C</td></tr><tr><td>16</td><td>T1</td><td>67.0°C</td><td>99.1°C</td></tr><tr><td>17</td><td>C105</td><td>63.3°C</td><td>95.2°C</td></tr><tr><td>18</td><td>U101</td><td>60.1°C</td><td>91.9°C</td></tr><tr><td>19</td><td>U121</td><td>61.3°C</td><td>93.4°C</td></tr><tr><td>20</td><td>C200</td><td>57.7°C</td><td>91.4°C</td></tr><tr><td>21</td><td>BD2</td><td>62.2°C</td><td>94.7°C</td></tr><tr><td>22</td><td>D102</td><td>64.9°C</td><td>96.5°C</td></tr><tr><td>23</td><td>D103</td><td>68.8°C</td><td>99.8°C</td></tr><tr><td>24</td><td>U3</td><td>56.8°C</td><td>89.4°C</td></tr><tr><td>25</td><td>RTH3</td><td>64.9°C</td><td>97.1°C</td></tr><tr><td>26</td><td>TC(Q1)</td><td>52.3°C</td><td>84.3°C</td></tr></table>			NO	Position	ROOM AMBIENT Ta=29.7 °C	HIGH AMBIENT Ta=63.0°C	1	ZNR1	52.5°C	86.0°C	2	LF1	54.1°C	87.7°C	3	C2	54.4°C	87.7°C	4	LF2	58.0°C	91.0°C	5	RY1	68.4°C	100.9°C	6	RTH1	58.0°C	90.7°C	7	C10	63.8°C	97.0°C	8	L1	77.4°C	111.5°C	9	Q1	60.9°C	94.6°C	10	D8	57.6°C	91.0°C	11	C5	58.9°C	91.0°C	12	C14	57.3°C	90.6°C	13	Q5	54.1°C	88.1°C	14	U2	64.6°C	97.4°C	15	C36	52.3°C	85.0°C	16	T1	67.0°C	99.1°C	17	C105	63.3°C	95.2°C	18	U101	60.1°C	91.9°C	19	U121	61.3°C	93.4°C	20	C200	57.7°C	91.4°C	21	BD2	62.2°C	94.7°C	22	D102	64.9°C	96.5°C	23	D103	68.8°C	99.8°C	24	U3	56.8°C	89.4°C	25	RTH3	64.9°C	97.1°C	26	TC(Q1)	52.3°C	84.3°C
NO	Position	ROOM AMBIENT Ta=29.7 °C	HIGH AMBIENT Ta=63.0°C																																																																																																													
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10	D8	57.6°C	91.0°C																																																																																																													
11	C5	58.9°C	91.0°C																																																																																																													
12	C14	57.3°C	90.6°C																																																																																																													
13	Q5	54.1°C	88.1°C																																																																																																													
14	U2	64.6°C	97.4°C																																																																																																													
15	C36	52.3°C	85.0°C																																																																																																													
16	T1	67.0°C	99.1°C																																																																																																													
17	C105	63.3°C	95.2°C																																																																																																													
18	U101	60.1°C	91.9°C																																																																																																													
19	U121	61.3°C	93.4°C																																																																																																													
20	C200	57.7°C	91.4°C																																																																																																													
21	BD2	62.2°C	94.7°C																																																																																																													
22	D102	64.9°C	96.5°C																																																																																																													
23	D103	68.8°C	99.8°C																																																																																																													
24	U3	56.8°C	89.4°C																																																																																																													
25	RTH3	64.9°C	97.1°C																																																																																																													
26	TC(Q1)	52.3°C	84.3°C																																																																																																													
2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)	I/P : 230 VAC O/P : 122 %LOAD Ta : 25°C	TEST : OK																																																																																																												
3	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 305VAC/100VAC O/P : 100 %LOAD Ta= -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	± 0.0081%/°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= 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) 334808.9HRS (2) 32608.9HRS (3) 50291.4HRS (4) 73898HRS
10	MTBF	Conducted by Parts Stress Analysis Prediction 1775.2K hrs min. Telcordia SR-332 (Bellcore) ; 244.0K 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	HANXR	LIUTT	WANGZD

2020.10.1 TAG-QA-009