



Test Report: NSP-200-27

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

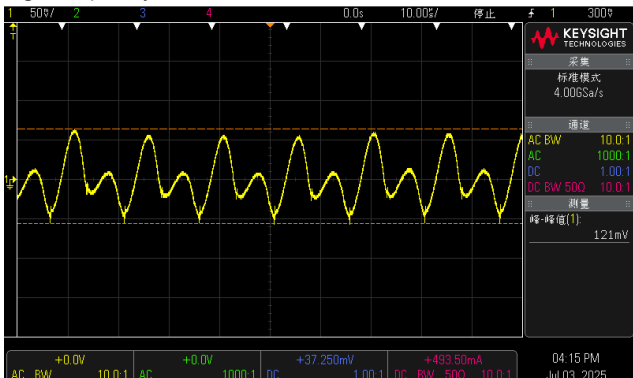
E.M.C. Test

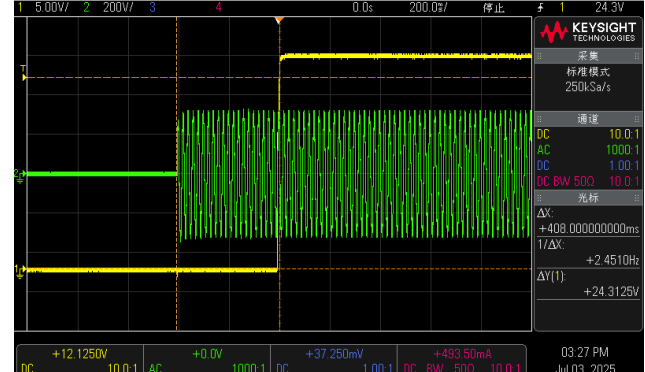
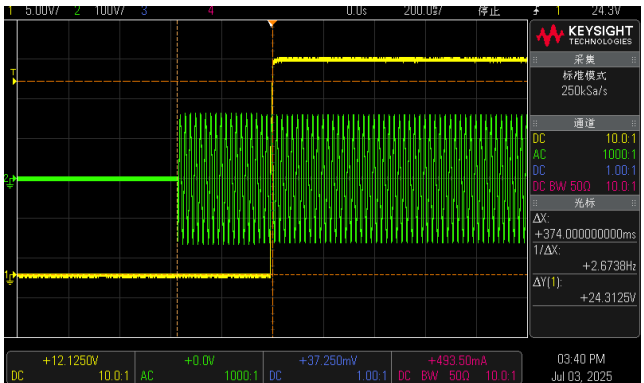
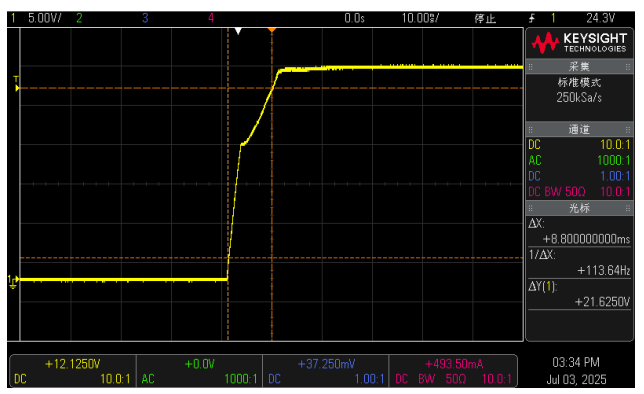
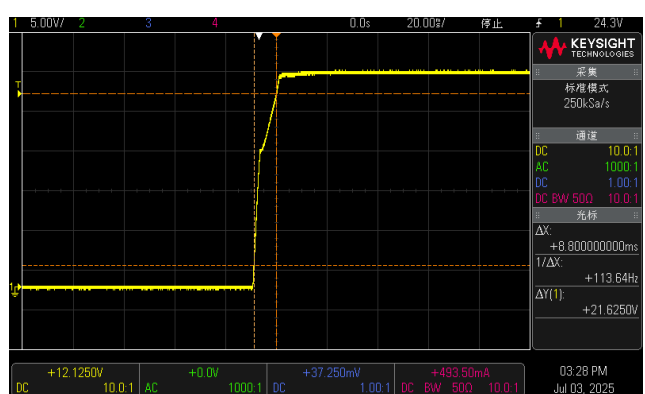
■ RELIABILITY TEST

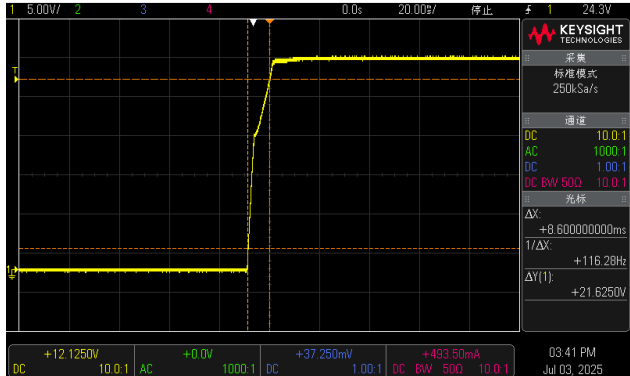
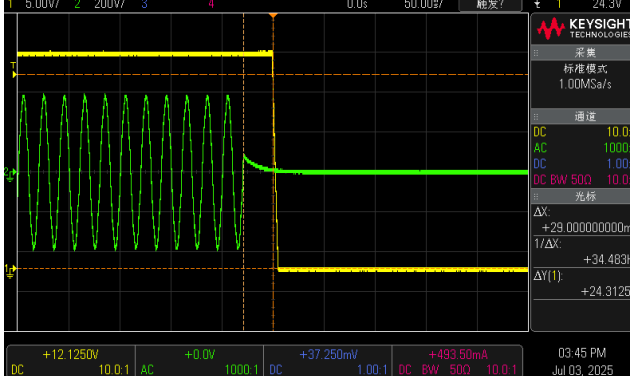
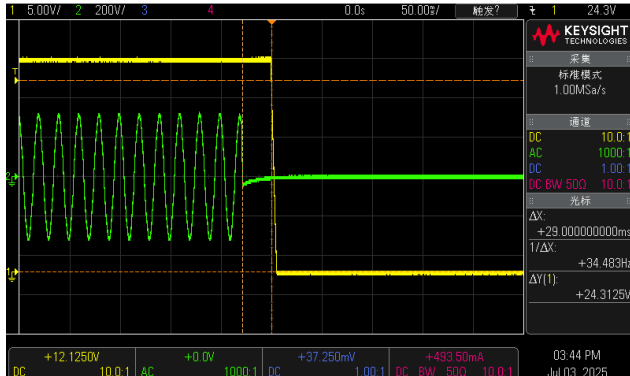
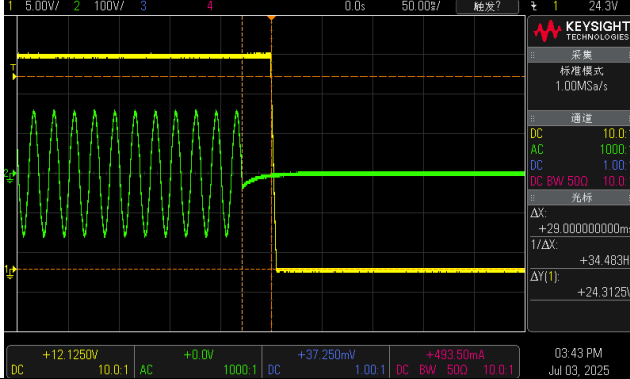
ENVIRONMENT TEST

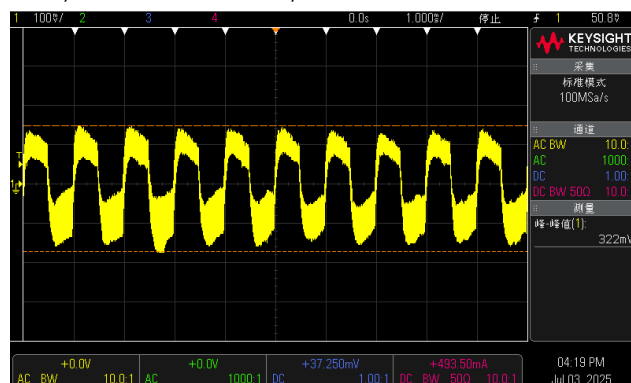
DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT VOLTAGE ADJUST RANGE	CH1: 26 V ~ 32 V	I/P : 230 VAC O/P : MIN LOAD Ta : 25°C	CH1 : 24.7 V ~ 33.8 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: - 0.00 % ~ + 0.11 %
3	LINE REGULATION	V1: -0.5 % ~ +0.5 %	I/P: 85VAC ~ 305VAC O/P:FULL LOAD Ta:25°C	V1: -0.04 % ~ + 0.00 %
4	LOAD REGULATION	V1: -0.5 % ~ +0.5 %	I/P: 230VAC O/P:FULL ~MIN LOAD Ta:25°C	V1: -0.07 % ~ + 0.04 %
5	OVER/UNDERSHOOT TEST	< ± 5 %	I/P: 230VAC O/P:FULL LOAD Ta:25°C	V1 : 1.08 %
6	RIPPLE & NOISE (Max)	V1: 240 mVp-p	I/P: 230 VAC O/P: FULL LOAD Ta:25°C	V1: 165 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/ 400 ms 230VAC/ 408 ms 115VAC/ 374 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	

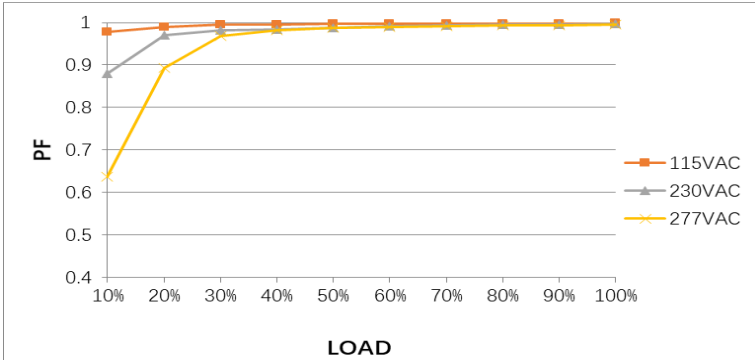
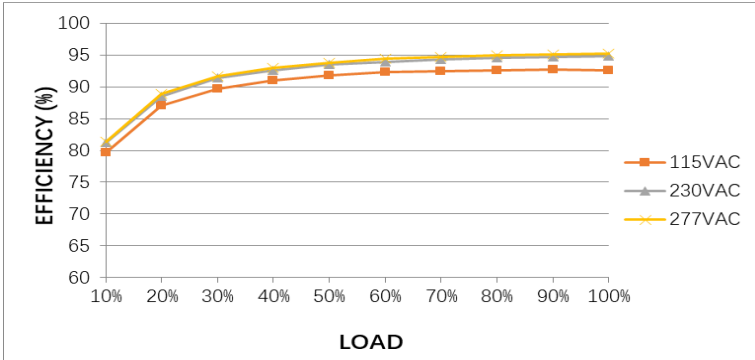
	  INPUT=115VAC/60HZ @ FULL LOAD CH1 : Output Voltage CH2 : AC Input Voltage 			
8	RISE TIME (Max)	277VAC/80ms 230VAC/80ms 115VAC/80ms	I/P : 277 VAC I/P : 230 VAC I/P : 115VAC O/P : FULL LOAD Ta : 25°C	277VAC/ 8.8 ms 230VAC/ 8.8 ms 115VAC/ 8.6 ms
	INPUT=277VAC/60HZ @ FULL LOAD CH1 : Output Voltage  INPUT=230VAC/50HZ @ FULL LOAD CH1 : Output Voltage 			
	INPUT=115VAC/60HZ @ FULL LOAD			

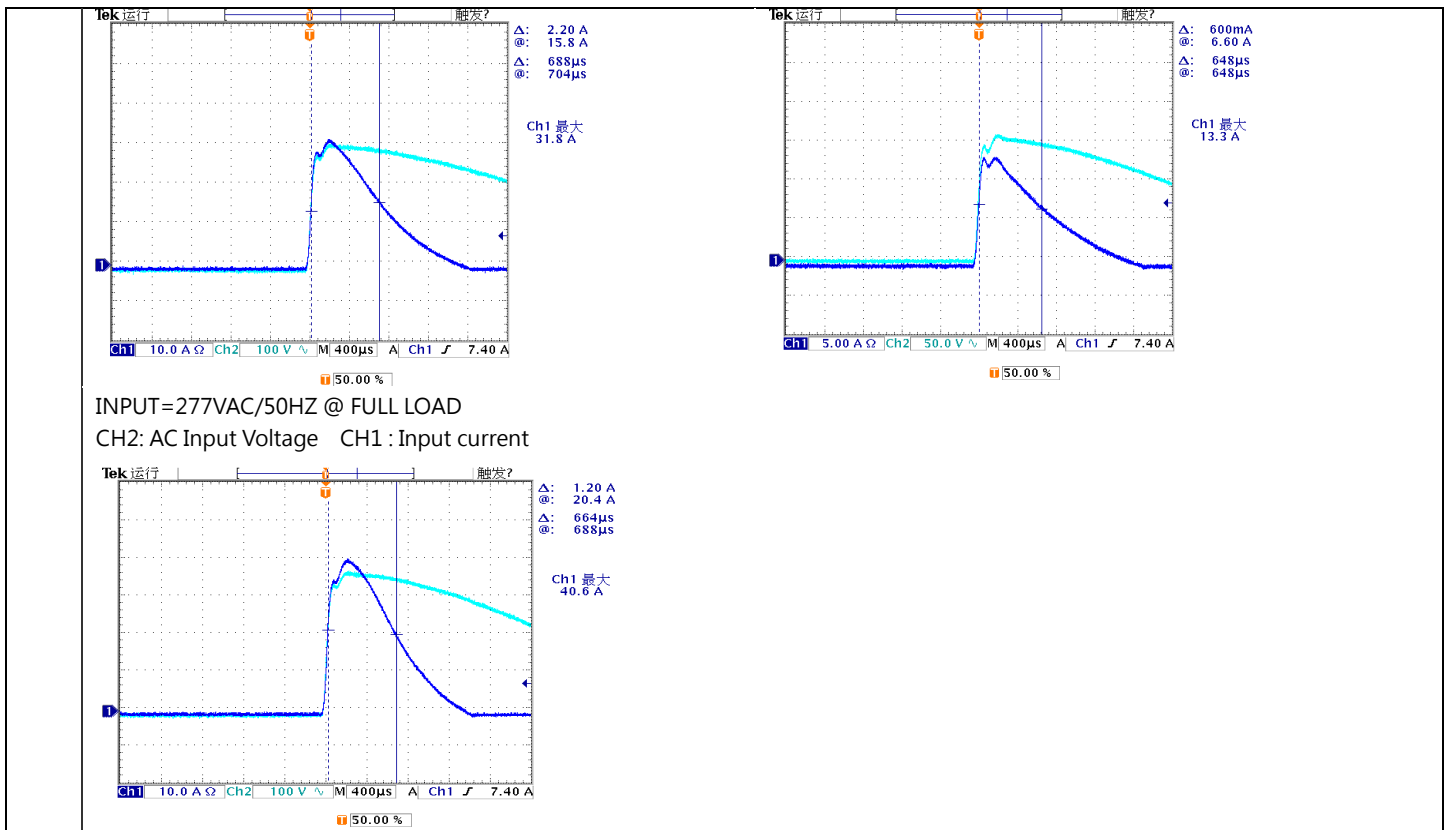
	CH1 : Output Voltage		
9	HOLD UP TIME (Typ.)	277VAC/16ms 230VAC/16ms 115VAC/16ms	I/P : 277VAC I/P : 230 VAC I/P : 115VAC O/P : FULL LOAD Ta : 25°C 277VAC/ 29 ms 230VAC/ 29 ms 115VAC/ 28 ms
	INPUT=277VAC/60HZ @ FULL LOAD CH1 : Output Voltage CH2 : AC Input Voltage  INPUT=230VAC/50HZ @ FULL LOAD CH1 : Output Voltage CH2 : AC Input Voltage 	INPUT=115VAC/60HZ @ FULL LOAD CH1 : Output Voltage CH2 : AC Input Voltage 	
10	DYNAMIC LOAD	V1: 2700 mVp-p	I/P: 230VAC O/P: (1)FULL /50% LOAD 50%DUTY / 120HZ (2)FULL /50% LOAD 50%DUTY / 1KHZ Ta:25°C 442 mVp-p 322 mVp-p

FULL /50% LOAD 50%DUTY / 120HZ  FULL /50% LOAD 50%DUTY / 1KHZ 				
11	TRANSIENT RECOVERY TIME	V1: 2700 mVp-p <500us	I/P: 230VAC O/P:40% LOAD CHANGE 50%DUTY/120HZ 1.25A/us	406 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/ 0.8A 230VAC/ 1 A 115VAC/ 2A	I/P : 277 VAC I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	I =0.75 A/ 277VAC I =0.91 A/ 230VAC I =1.86 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	166μA 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.)	94.5 %	I/P:230 VAC O/P:FULL LOAD Ta:25°C	94.8 %
	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 : 1.682 W/ 277VAC 1.701 W/ 230VAC 1.781 W/ 115VAC Remote Power OFF : 0.375 W/ 277VAC 0.297 W/ 230VAC 0.126 W/ 115VAC
	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 =13.3A/ 115VAC T50=648us/115V I =31.8A/ 230VAC T50=688us/230V I =40.6A/ 277VAC T50=664us/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				

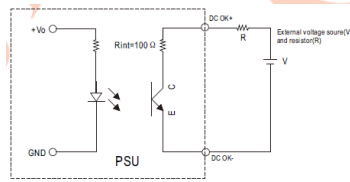
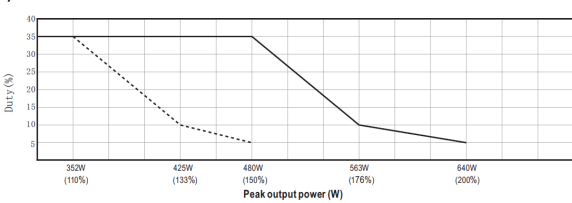


PROTECTION FUNCTION TEST

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	129.73 %/ 305VAC 129.73 %/ 230VAC 129.73 %/ 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	33 V ~ 42 V	I/P: 305VAC I/P: 230VAC I/P: 85VAC O/P: MIN LOAD Ta:25°C	36.6 V / 305 VAC 36.6 V / 230 VAC 36.6 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℃	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℃	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℃	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) 463 V (2) 459 V (3) 459 V (4) 491 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	Q101 Rated : 80A/100V	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	Q101: VDS: (1) 72.1 V (2) 71.3 V (3) 72.9 V (4) 72.9 V
4	Control IC Voltage Test	PWM IC U2 Rated : 9.6V~ 36V O/P IC U100 Rated : :4.2V~ 35V	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) 18.8 V (2) 18.8 V (3) 19.0 V (4) 14.6 V U100 (1) 11.6 V (2) 10.6 V (3) 11.6 V (4) 9.2 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 : 2.24 mA O / P - F G : 1.59 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-200-24 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta= 30.5 °C 2. HIGH AMBIENT BURN-IN : HRS I/P : 230VAC O/P : FULL LOAD Ta= 61.8 °C <table><tr><th>NO</th><th>Position</th><th>ROOM AMBIENT Ta=30.5 °C</th><th>HIGH AMBIENT Ta=61.8°C</th></tr><tr><td>1</td><td>ZNR1</td><td>52.2°C</td><td>83.9°C</td></tr><tr><td>2</td><td>LF1</td><td>54.7°C</td><td>86.4°C</td></tr><tr><td>3</td><td>C2</td><td>54.0°C</td><td>85.7°C</td></tr><tr><td>4</td><td>LF2</td><td>58.4°C</td><td>89.8°C</td></tr><tr><td>5</td><td>RY1</td><td>64.6°C</td><td>96.1°C</td></tr><tr><td>6</td><td>RTH1</td><td>57.8°C</td><td>89.4°C</td></tr><tr><td>7</td><td>C10</td><td>64.3°C</td><td>96.2°C</td></tr><tr><td>8</td><td>L1</td><td>76.4°C</td><td>108.9°C</td></tr><tr><td>9</td><td>Q1</td><td>60.4°C</td><td>93.1°C</td></tr><tr><td>10</td><td>D8</td><td>57.9°C</td><td>90.2°C</td></tr><tr><td>11</td><td>C5</td><td>59.4°C</td><td>90.2°C</td></tr><tr><td>12</td><td>C14</td><td>56.9°C</td><td>88.2°C</td></tr><tr><td>13</td><td>Q5</td><td>55.3°C</td><td>88.2°C</td></tr><tr><td>14</td><td>U2</td><td>65.2°C</td><td>96.8°C</td></tr><tr><td>15</td><td>C36</td><td>53.2°C</td><td>84.2°C</td></tr><tr><td>16</td><td>T1 次</td><td>66.4°C</td><td>97.5°C</td></tr><tr><td>17</td><td>C105</td><td>55.4°C</td><td>87.5°C</td></tr><tr><td>18</td><td>U101</td><td>55.3°C</td><td>87.1°C</td></tr><tr><td>19</td><td>U121</td><td>55.8°C</td><td>87.4°C</td></tr><tr><td>20</td><td>C200</td><td>56.4°C</td><td>88.8°C</td></tr><tr><td>21</td><td>BD2</td><td>63.8°C</td><td>95.2°C</td></tr><tr><td>22</td><td>U100</td><td>62.1°C</td><td>93.8°C</td></tr><tr><td>23</td><td>Q102</td><td>58.9°C</td><td>91.2°C</td></tr><tr><td>24</td><td>U3</td><td>56.7°C</td><td>88.4°C</td></tr><tr><td>25</td><td>RTH3</td><td>58.6°C</td><td>90.5°C</td></tr><tr><td>26</td><td>TC(Q1)</td><td>52.1°C</td><td>83.5°C</td></tr></table>			NO	Position	ROOM AMBIENT Ta=30.5 °C	HIGH AMBIENT Ta=61.8°C	1	ZNR1	52.2°C	83.9°C	2	LF1	54.7°C	86.4°C	3	C2	54.0°C	85.7°C	4	LF2	58.4°C	89.8°C	5	RY1	64.6°C	96.1°C	6	RTH1	57.8°C	89.4°C	7	C10	64.3°C	96.2°C	8	L1	76.4°C	108.9°C	9	Q1	60.4°C	93.1°C	10	D8	57.9°C	90.2°C	11	C5	59.4°C	90.2°C	12	C14	56.9°C	88.2°C	13	Q5	55.3°C	88.2°C	14	U2	65.2°C	96.8°C	15	C36	53.2°C	84.2°C	16	T1 次	66.4°C	97.5°C	17	C105	55.4°C	87.5°C	18	U101	55.3°C	87.1°C	19	U121	55.8°C	87.4°C	20	C200	56.4°C	88.8°C	21	BD2	63.8°C	95.2°C	22	U100	62.1°C	93.8°C	23	Q102	58.9°C	91.2°C	24	U3	56.7°C	88.4°C	25	RTH3	58.6°C	90.5°C	26	TC(Q1)	52.1°C	83.5°C
NO	Position	ROOM AMBIENT Ta=30.5 °C	HIGH AMBIENT Ta=61.8°C																																																																																																													
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10	D8	57.9°C	90.2°C																																																																																																													
11	C5	59.4°C	90.2°C																																																																																																													
12	C14	56.9°C	88.2°C																																																																																																													
13	Q5	55.3°C	88.2°C																																																																																																													
14	U2	65.2°C	96.8°C																																																																																																													
15	C36	53.2°C	84.2°C																																																																																																													
16	T1 次	66.4°C	97.5°C																																																																																																													
17	C105	55.4°C	87.5°C																																																																																																													
18	U101	55.3°C	87.1°C																																																																																																													
19	U121	55.8°C	87.4°C																																																																																																													
20	C200	56.4°C	88.8°C																																																																																																													
21	BD2	63.8°C	95.2°C																																																																																																													
22	U100	62.1°C	93.8°C																																																																																																													
23	Q102	58.9°C	91.2°C																																																																																																													
24	U3	56.7°C	88.4°C																																																																																																													
25	RTH3	58.6°C	90.5°C																																																																																																													
26	TC(Q1)	52.1°C	83.5°C																																																																																																													
2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)	I/P : 230 VAC O/P : 125 %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) 613193.3 HRS (2) 51275.5HRS (3) 76844.8HRS (4) 112063.8HRS
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