



Test Report: NSP-1600-36

1600W Power Supply with Single Output

■ 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

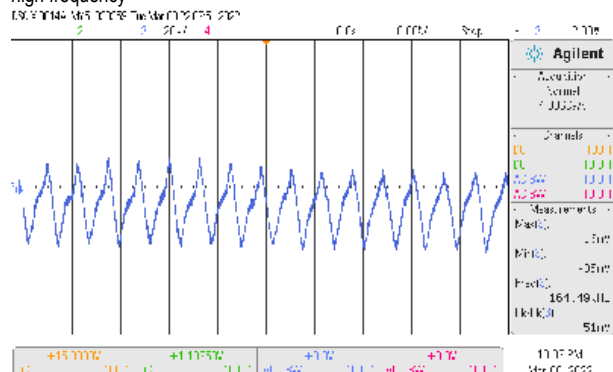
ENVIRONMENT TEST

DESIGN VERIFY TEST

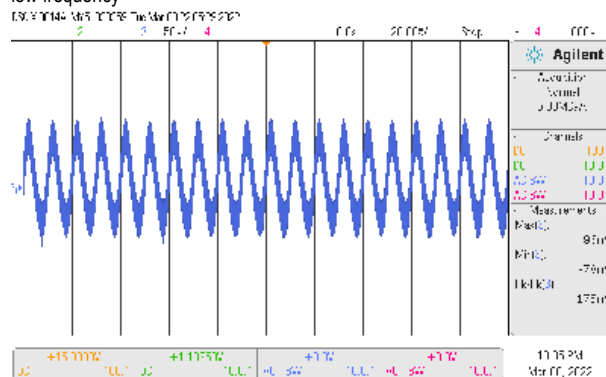
OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT VOLTAGE ADJUST RANGE	CH1: 35.5 V~ 45V	I/P : 230 VAC I/P : 90 VAC O/P : MIN LOAD Ta : 25°C	46.08V~34.19V/230VAC 46.08V~34.21V/90VAC
2	OUTPUT VOLTAGE(Max) TOLERANCE	V1: 1 %~ -1 %	I/P: 180VAC /264VAC O/P:FULL/ MIN. LOAD Ta:25°C	V1:-0.02 %~ 0.02 %
3	LINE REGULATION (Max)	V1: 0.5 %~ -0.5 %	I/P: 180VAC~ 264VAC O/P:FULL LOAD Ta:25°C	V1: -0.02 %~0.02 %
4	LOAD REGULATION(Max)	V1: 0.5 %~ -0.5 %	I/P: 230VAC O/P:FULL ~MIN LOAD Ta:25°C	V1: 0 %~ 0.02 %
5	OVER/UNDERSHOOT TEST	< ±5%	I/P: 230VAC O/P:FULL LOAD Ta:25°C	0.43 %
6	RIPPLE & NOISE(Max)	V1: 250 mVp-p	I/P:230VAC O/P:FULL LOAD Ta:25°C	V1:175 mVp-p

high frequency :



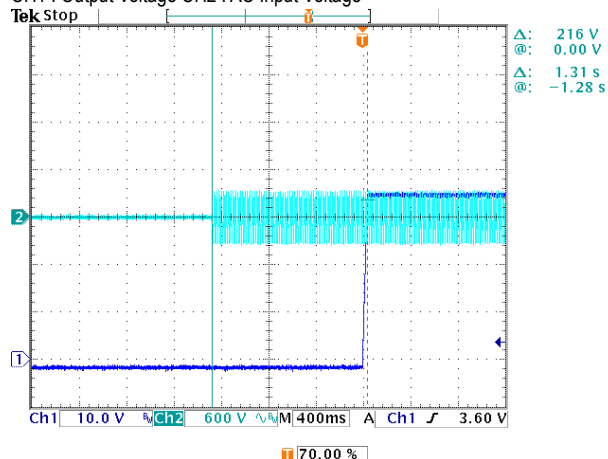
low frequency :

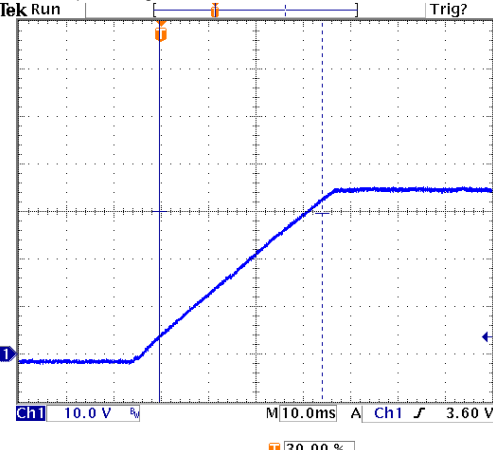
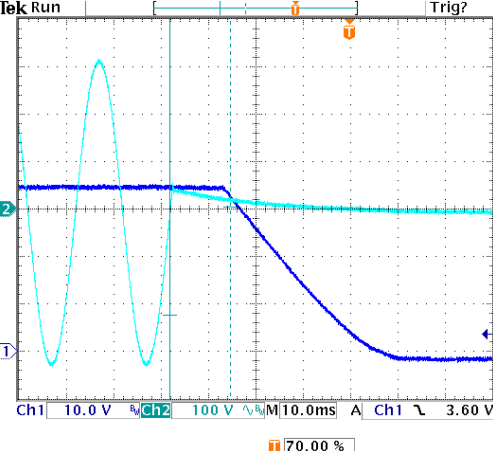
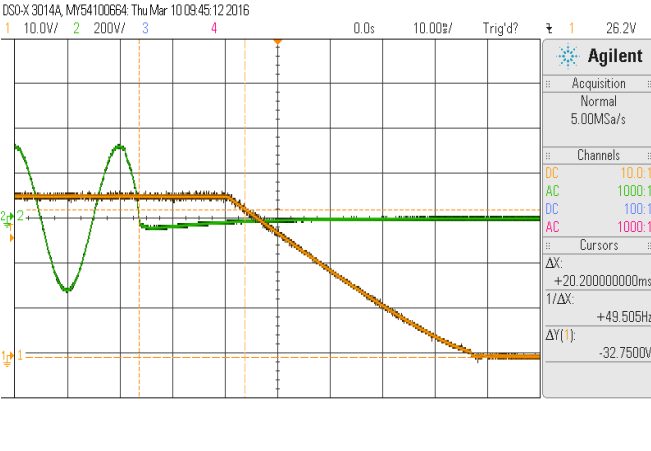
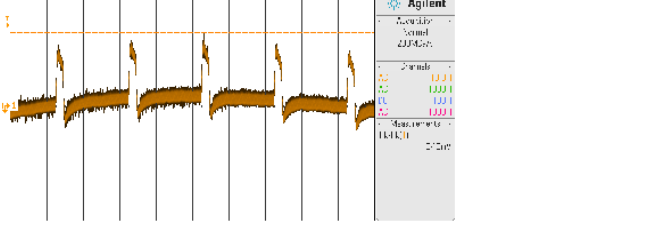


7	SET UP TIME(Max)	230VAC/1500ms	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	230VAC/ 1312 ms
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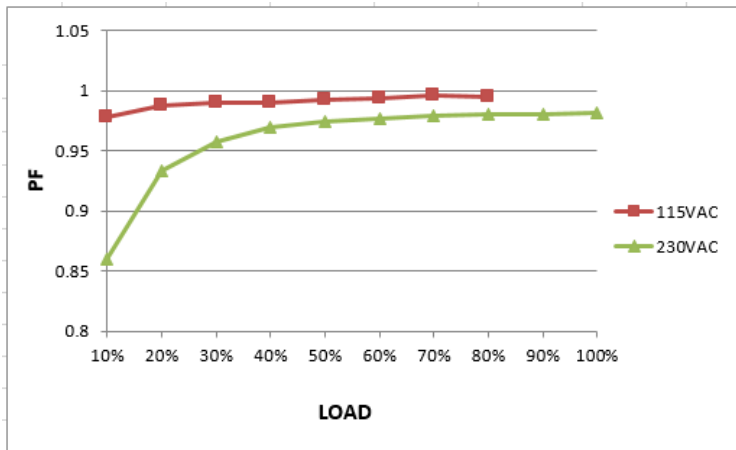
INPUT=230VAC/50HZ @ FULL LOAD

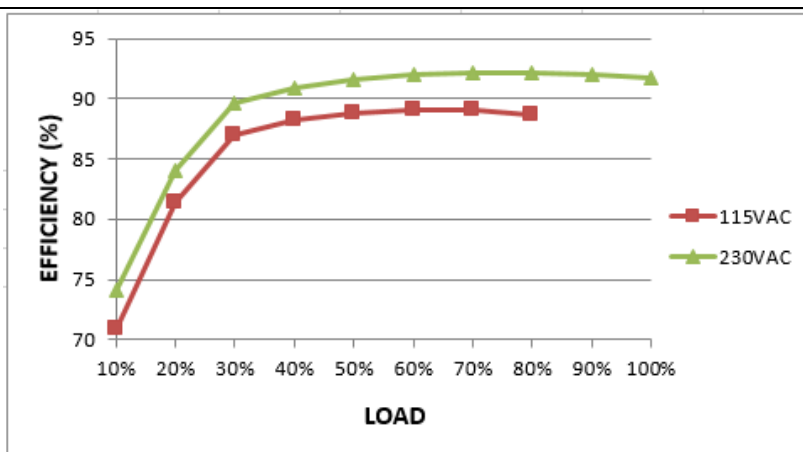
CH1 : Output Voltage CH2 : AC Input Voltage

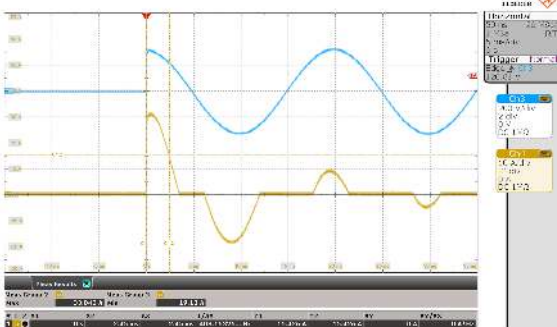


8	RISE TIME (Max)	230VAC/60ms	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	230VAC/34.4ms
	INPUT=230VAC/50HZ @ FULL LOAD CH1 : Output Voltage  Δ: 400mV @: 30.0 V Δ: 34.4ms @: -400μs Ch1 10.0 V 10.0ms A Ch1 3.60 V 30.00 %			
9	HOLD UP TIME (Typ.)	230VAC/10ms /FULL LOAD 230VAC/16ms /70% LOAD	I/P : 230 VAC O/P : FULL LOAD /70% LOAD Ta : 25°C	230VAC/ 12.8 ms /FULL LOAD 230VAC/ 20.2 ms /70% LOAD
10	DYNAMIC LOAD	V1: 3600 mVp-p	I/P: 230VAC O/P: (1)FULL /50% LOAD 50%DUTY / 120HZ (2)FULL /50% LOAD 50%DUTY / 1KHZ Ta:25°C	422mVp-p 342mVp-p
	INPUT=230VAC/50HZ @ FULL LOAD CH1 : Output Voltage CH2 : AC Input Voltage  Δ: 228 V @: -224 V Δ: 12.8ms @: -38.2ms Ch1 10.0 V 10.0ms A Ch1 3.60 V 70.00 %			
	INPUT=230VAC/50HZ @70% LOAD CH1 : Output Voltage CH2 : AC Input Voltage  Δ: 26.2 V @: -26.2 V Δ: 20.2ms @: -38.2ms Ch1 10.0 V 10.0ms A Ch1 3.60 V 70.00 %			
	FULL /50% LOAD 50%DUTY / 120HZ  Δ: 422mV @: 30.0 V Δ: 10.0ms @: -10.0ms Ch1 10.0 V 10.0ms A Ch1 3.60 V 70.00 %			
	FULL /50% LOAD 50%DUTY / 1KHZ  Δ: 342mV @: 30.0 V Δ: 10.0ms @: -10.0ms Ch1 10.0 V 10.0ms A Ch1 3.60 V 70.00 %			

INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT																																	
1	INPUT VOLTAGE RANGE	90V~264VAC 127VDC~ 370VDC	(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 (PLEASE CHECK DERATING CURVE) Ta:25°C	(1) 170 V~ 264 V 87V~264V (2) 127VDC~370VDC (3) 127VDC~370VDC																																	
			I/P: LOW-LINE-3V=87 V HIGH-LINE+15%=300 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:90 VAC ~264 VAC O/P:FULL~MIN LOAD Ta:25°C	TEST: OK																																	
3	INPUT CURRENT (Typ.)	230V/ 8.5 A 115V/ 15 A	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD (PLEASE CHECK DERATING CURVE) Ta : 25°C	I =7.88A/ 230VAC I =12.45A/ 115VAC																																	
4	LEAKAGE CURRENT	<2 mA / 230 VAC	I/P : 230 VAC O/P : Min LOAD Ta : 25°C	L-FG : 0.76 mA N-FG : 0.76 mA																																	
5	POWER FACTOR (Typ.)	0.97 / 230VAC	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	PF=0.982/230VAC																																	
P.F vs LOAD																																					
<table><caption>Approximate data points from P.F vs LOAD graph</caption><thead><tr><th>Load (%)</th><th>115VAC PF</th><th>230VAC PF</th></tr></thead><tbody><tr><td>10</td><td>0.98</td><td>0.86</td></tr><tr><td>20</td><td>0.99</td><td>0.94</td></tr><tr><td>30</td><td>0.99</td><td>0.96</td></tr><tr><td>40</td><td>0.99</td><td>0.97</td></tr><tr><td>50</td><td>0.99</td><td>0.975</td></tr><tr><td>60</td><td>0.99</td><td>0.98</td></tr><tr><td>70</td><td>0.99</td><td>0.98</td></tr><tr><td>80</td><td>0.99</td><td>0.98</td></tr><tr><td>90</td><td>0.99</td><td>0.98</td></tr><tr><td>100</td><td>0.99</td><td>0.98</td></tr></tbody></table>					Load (%)	115VAC PF	230VAC PF	10	0.98	0.86	20	0.99	0.94	30	0.99	0.96	40	0.99	0.97	50	0.99	0.975	60	0.99	0.98	70	0.99	0.98	80	0.99	0.98	90	0.99	0.98	100	0.99	0.98
Load (%)	115VAC PF	230VAC PF																																			
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20	0.99	0.94																																			
30	0.99	0.96																																			
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50	0.99	0.975																																			
60	0.99	0.98																																			
70	0.99	0.98																																			
80	0.99	0.98																																			
90	0.99	0.98																																			
100	0.99	0.98																																			
6	EFFICIENCY(Typ.)	91.5%	I/P:230 VAC O/P:FULL LOAD Ta:25°C	91.68%																																	
EFFICIENCY vs LOAD																																					



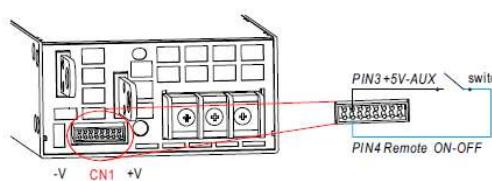
7	INRUSH CURRENT(Typ.)	230V/35 A COLD START	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	I =33A/ 230VAC T50= 2450 us/230V
INPUT=230VAC/50HZ @ FULL LOAD CH4 : Input current CH3: Input AC 				

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER LOAD PROTECTION	105 %~ 115 % PROTECTION TYPE : Constant current limiting, unit will shut down o/p voltage after 5 sec. re-power on to recover	I/P: 264VAC I/P: 230VAC I/P: 180VAC O/P: TESTING Ta:25°C	110.74%/ 264VAC 110.46%/ 230VAC 110.69%/180VAC PROTECTION TYPE : Constant current limiting, unit will shut down o/p voltage after 5 sec. re-power on to recover
2	OVER VOLTAGE PROTECTION	47.2 V~ 56.3 V PROTECTION TYPE : Shut down o/p voltage, re-power on to recover	I/P: 264VAC I/P: 230VAC I/P: 90VAC O/P: MIN LOAD Ta:25°C	51.3V/ 264VAC 51.3V/ 230VAC 51.3V/ 90VAC PROTECTION TYPE : Shut down o/p voltage, re-power on to recover
3	OVER TEMPERATURE PROTECTION	NO DAMAGE PROTECTION TYPE : Shut down o/p voltage, recovers automatically after temperature goes down	I/P: 264VAC I/P: 180VAC O/P: FULL LOAD	O.T.P. Active PROTECTION TYPE : Shut down o/p voltage, recovers automatically after temperature goes down
4	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 264VAC I/P: 90VAC O/P: FULL LOAD	NO DAMAGE PROTECTION TYPE :

		PROTECTION TYPE : Constant current limiting, unit will shut down o/p voltage after 5 sec. re-power on to recover	Ta:25°C	Constant current limiting, unit will shut down o/p voltage after 5 sec. re-power on to recover
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CONTROL FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT																					
1	AUXILIARY POWER (AUX)	12V±10%@0.8A ripple:250mVp-p	I/P: 230 VAC O/P:FULL LOAD Ta:25℃	11.32V/ 0.8 A /150 mVp-p																					
2	REMOTE ON/OFF CONTROL	3. Remote ON-OFF Control ※ The power supply can be turned ON/OFF individually or along with other units by using the "Remote ON-OFF" function.  I/P: 230 VAC O/P:FULL LOAD Ta:25℃ Test Result : <table><tr><th>Between Remote ON-OFF and +5V-AUX</th><th>Power Supply Status</th></tr><tr><td>SW SHORT</td><td>ON</td></tr><tr><td>SW OPEN</td><td>OFF</td></tr></table>			Between Remote ON-OFF and +5V-AUX	Power Supply Status	SW SHORT	ON	SW OPEN	OFF															
Between Remote ON-OFF and +5V-AUX	Power Supply Status																								
SW SHORT	ON																								
SW OPEN	OFF																								
3	REMOTE SENSE	S+ / S- >0.5V Compensate voltage drop on the load wiring up to 0.5V.	I/P: 230 VAC O/P:FULL LOAD Ta:25℃	> 0.5V																					
4	ALARM SIGNAL	1. DC OK SIGNAL High (3.5 ~ 5.5V) : When the Vout≤ 77%±5%. Low (-0.5 ~ 0.5V) : When Vout≥ 80%±5%. The maximum sourcing current is 10mA and only for output. (Note.2) I/P: 230 VAC O/P:FULL LOAD Ta:25℃ Test Result : <table><tr><th>Vout</th><th>DC OK SIGNAL</th></tr><tr><td>Vout≤ 72%</td><td>5V</td></tr><tr><td>Vout ≥ 85%</td><td>-0.09V</td></tr></table> 2. T-ALARM <table><tr><th>P.S.U STATUS</th><th>Vo</th><th>T-ALARM</th></tr><tr><td>NORMAL</td><td>100%±2%</td><td>-0.5 ~0.5V</td></tr><tr><td>OTP OR FAN LOCK</td><td>0V</td><td>3.5~5.5V</td></tr></table> I/P: 230 VAC O/P:FULL LOAD Ta:25℃ Test Result : <table><tr><th>P.S.U STATUS</th><th>T-ALARM</th></tr><tr><td>NORMAL</td><td>0.01 V</td></tr><tr><td>OTP OR FAN LOCK</td><td>5.38V</td></tr></table>			Vout	DC OK SIGNAL	Vout≤ 72%	5V	Vout ≥ 85%	-0.09V	P.S.U STATUS	Vo	T-ALARM	NORMAL	100%±2%	-0.5 ~0.5V	OTP OR FAN LOCK	0V	3.5~5.5V	P.S.U STATUS	T-ALARM	NORMAL	0.01 V	OTP OR FAN LOCK	5.38V
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OTP OR FAN LOCK	5.38V																								

5 OUTPUT VOLTAGE PROGRAMMABLE(PV)

2. Output Voltage Programming (or, PV / remote voltage programming / remote adjust / margin programming / dynamic voltage trim)
 ※ In addition to the adjustment via the built-in potentiometer, the output voltage can be trimmed by applying EXTERNAL VOLTAGE.

The diagram shows a power supply unit with a terminal block. A red wire connects the -V terminal to the EXTERNAL VOLTAGE (DC) source. Another red wire connects the +V terminal to the EXTERNAL VOLTAGE (DC) source. A third red wire connects the EXTERNAL VOLTAGE (DC) source to the PIN12 PV pin. A fourth red wire connects the EXTERNAL VOLTAGE (DC) source to the PIN14 -V(signal) pin.

The graph plots Output Voltage (%) on the y-axis (40 to 125) against External Voltage (DC) on the x-axis (0 to 5V). The curve starts at 100% for 0V, drops to 40% at 0.4V, and then rises linearly to 125% at 4.7V. The region between 0.4V and 1V is labeled 'Others', and the region between 1V and 4.7V is labeled 'Non-Linear'.

The graph plots Output Current (%) on the y-axis (20 to 100) against Output Voltage (%) on the x-axis (40 to 125). The curve is constant at 100% for output voltages up to 100%, and then drops to 0% at 125% output voltage.

- ⊙ The rated current should change with the Output Voltage Programming accordingly.
- ⊙ For Remote Sense / Local Sense, please refer to "Voltage Drop Compensation" section.

I/P: 230 VAC
 O/P:FULL LOAD
 Ta:25°C
 Test Result :

MODEL \ PV	<0.4V	1V	5V
SPEC	36V±5%	14.4V±5%	45V±5%
Vout	36.01V	14.5V	45.5V

COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Transistor (D to S) or (C to E) Peak Voltage	Q901 Rated 37A/600V	I/P: High-Line +3V =267V AC ON/OFF 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	VDS: (1) 469V (2) 448V (3) 428V (4) 432V (5) 432V (6) 432V (7) 436V
2	P.F.C Transistor (D to S) or (C to E) Peak Voltage	Q52 Rated 52A/ 600V	I/P: High-Line +3V =267 V AC ON/OFF O/P: (1) Full Load	VDS: (1) 457V/19.1A

			(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	(2) 408V/18.7A (3)440 V/14.2A (4)444 V/14.6A (5)457 V/13.4A (6)428V/10.3A (7)412V/11.1A
3	Diode Peak Voltage	Q101 Rated 65A/200V Q104 Rated 65A/200V	I/P:High-Line +3V =267 V 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. (8).NO LOAD Ta:25°C	Q101: VDS: (1)140V (2)136V (3)138V (4)138V (5)140V (6)136V (7)136V (8)142V Q104: VDS: (1)140V (2)136V (3)136V (4)140V (5)138V (6)134V (7)138V (8)140V
4	Input Capacitor Voltage	C5 Rated: 680μ/400 V	I/P:High-Line +3V =267 V O/P: (1)Full Load Ta:25°C	(1)389V
5	Control IC Voltage Test	PWM IC U901 Rated 6.5 V~24V PFC IC U51 Rated 4.5V~ 15V	I/P:High-Line +3V =267 V AC ON/OFF O/P(1)FULL LOAD (2) Output Short (3)O.L.P (4)O.V.P. Ta:25°C	(1) 14.4V (2) 15.0V (3) 14.8V (4) 13.2V (1)13.6V (2)13.4V (3)13.4V (4)13.4V

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC/min I/P-FG :2KVAC/min O/P-FG:1.5KVAC/min	I/P-O/P: 3.6 KVAC/min I/P-FG: 2.4 KVAC/min O/P-FG:1.8 KVAC/min Ta:25°C	I/P-O/P:7.31mA I/P-FG:7.08mA O/P-FG:7.51m A NO DAMAGE
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ I/P-FG: 500VDC>100MΩ O/P-FG:500VDC>100MΩ	I/P-O/P: 500 VDC I/P-FG: 500 VDC O/P-FG: 500 VDC Ta:25°C	I/P-O/P: 20.1GΩ I/P-FG: 15.9GΩ O/P-FG:27.4 GΩ NO DAMAGE
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40A / 2min Ta:25°C	17 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:100% LOAD Ta:25°C	PASS
2	CONDUCTION	EN55022 CLASS B	I/P : 230 VAC (50HZ) O/P : FULL/50% LOAD Ta : 25°C	PASS Test by certified Lab
3	RADIATION	EN55022 CLASS A	I/P : 230 VAC (50HZ) O/P : FULL LOAD Ta : 25°C	PASS Test by certified Lab
4	E.S.D	EN61000-4-2 INDUSTRY AIR : 8KV / Contact : 4KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	CRITERIA A
5	E.F.T	EN61000-4-4 INDUSTRY INPUT : 2KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	CRITERIA A
6	SURGE	IEC61000-4-5 INDUSTRY 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-1600-24 1. ROOM AMBIENT BURN-IN : 1 HRS I/P : 230VAC O/P : FULL LOAD Ta= 25°C 2. HIGH AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta= 50°C		

			NO	Position	ROOM AMBIENT Ta= 25℃	HIGH AMBIENT Ta= 50 °C	
			1	BD1	44.7℃	71.0℃	
			2	Q52	56.9℃	84.6℃	
			3	D50	60.6℃	88.9℃	
			4	Q904	55.6℃	84.7℃	
			5	T1	71.4℃	103.7℃	
			6	Q101	66.7℃	97.7℃	
			7	T301	52.8℃	81.6℃	
			8	D321	58.6℃	88.9℃	
			9	U82	65.8℃	89.1℃	
			10	RTH21	52.6℃	79.0℃	
			11	C5	39.4℃	64.0℃	
			12	L100	78.0℃	102.3℃	
			13	RTH9	41.6℃	66.8℃	
			14	L900	64.6℃	90.0℃	
			15	RG301	23.7℃	50.0℃	
			16	L2	45.4℃	73.0℃	
			17	C104	32.3℃	59.1℃	
			18	D952	53.8℃	83.1℃	
			19	D301	71.1℃	99.0℃	
			20	U602	27.1℃	53.3℃	
			21	U901	46.3℃	72.7℃	
2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)	I/P : 230 VAC O/P : 109% LOAD Ta : 25℃		TEST : OK		
3	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 230VAC/180VAC O/P : 100 % LOAD Ta= -25℃		TEST : OK		
4	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 50 °C NO DAMAGE	I/P : 272 VAC O/P : FULL LOAD Ta= 50 °C HUMIDITY= 95 %R.H		TEST : OK		
5	TEMPERATURE COEFFICIENT	± 0.03 %/°C (0~50°C)	I/P : 230 VAC O/P : FULL LOAD		± 0.002 %/°C (0~50°C)		
6	STORAGE TEMPERATURE TEST	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 : 5 CYCLE 5. Input/Output condition : STATIC				OK	
7	THERMAL SHOCK TEST	1. Thermal shock Temperature : -25°C ~ +55°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 : 15cycle:230V/ FULL LOAD AC ON 3sec/AC OFF 1sec TEST(13500 TIMES) 1cycle:230V/ FULL LOAD Burn In Test				OK	

8	VIBRATION TEST	1 Carton & 1 Set (1) Waveform : Sine Wave (2) Frequency : 10~500Hz (3) Sweep Time : 12min/sweep cycle (4) Acceleration : 2G (5) Test Time : 60min in each axis (X.Y.Z) (6) Ta : 25°C	TEST : OK
9	CAPACITOR LIFE CYCLE	SUPPOSE C101 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= 50°C LIFE TIME (3) I/P : 230VAC O/P : 75% LOAD Ta= 50°C LIFE TIME (4) I/P : 230VAC O/P : 50% LOAD Ta= 50°C LIFE TIME	(1) 2128159HRS (2) 332080HRS (3) 465662HRS (4) 543665HRS
10	MTBF	Conducted by Parts Stress Analysis Prediction 684.7K hrs min. Telcordia SR-332 (Bellcore) ; 69.2K 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	DANIEL GAO	SANFORD SU	VINCENT TSENG

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