Test Report: DPU-3200-24

3200W 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

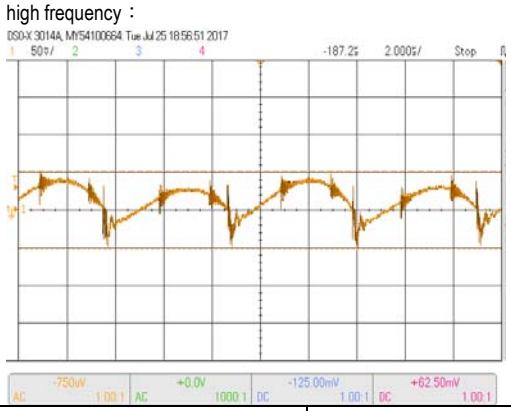
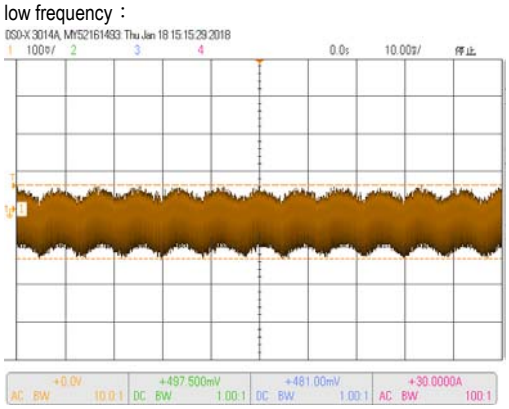
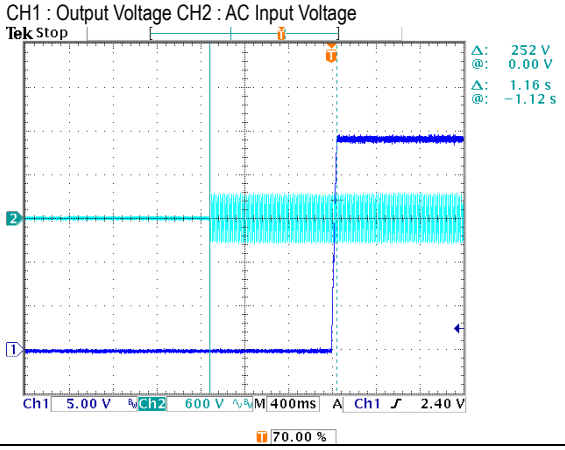
Safety Test
E.M.C. Test

■ RELIABILITY TEST

ENVIRONMENT TEST

■ DESIGN VERIFY TEST

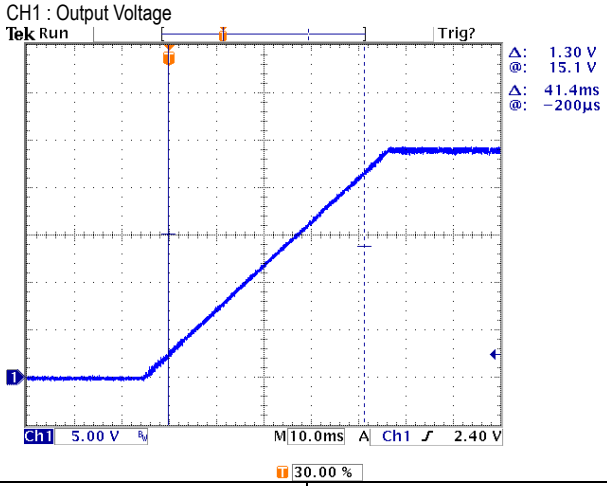
OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT VOLTAGE ADJUST RANGE	CH1: 23.5 V~ 30V	I/P ： 230 VAC I/P ： 115 VAC O/P ：MIN LOAD Ta ：25℃	22.86V~30.99V/230VAC 22.86V~30.99V/115VAC
2	OUTPUT VOLTAGE(Max) TOLERANCE	V1: 1 %~ -1 %	I/P: 180VAC /264VAC O/P:FULL/ MIN. LOAD Ta:25℃	V1: 0.6%~-0.08 %
3	LINE REGULATION (Max)	V1: 0.5 %~ -0.5 %	I/P: 180VAC~ 264VAC O/P:FULL LOAD Ta:25℃	V1:0.04 %~0.04%
4	LOAD REGULATION(Max)	V1: 0.5 %~ -0.5 %	I/P: 230VAC O/P:FULL ~MIN LOAD Ta:25℃	V1: 0.2%~0.24%
5	OVER/UNDERSHOOT TEST	±10%	I/P: 230VAC O/P:FULL LOAD Ta:25℃	<10%
6	RIPPLE & NOISE(Max)	V1: 300mVp-p	I/P:230VAC O/P:FULL LOAD Ta:25℃	V1 197 mVp-p
	high frequency ： 		low frequency ： 	
7	SET UP TIME(Max)	230VAC/1500ms	I/P ： 230 VAC O/P ：FULL LOAD Ta ：25℃	230VAC/ 1160 ms
	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℃	230VAC/ 41.4ms

INPUT=230VAC/50HZ @ FULL LOAD

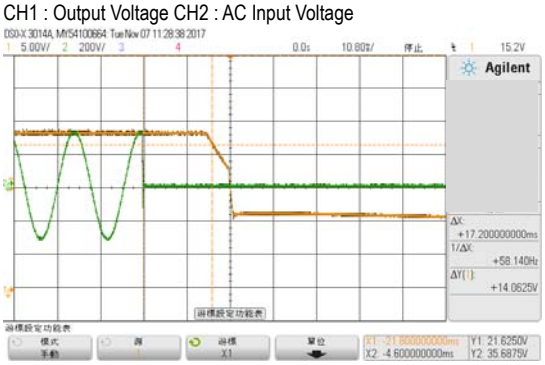
CH1 : Output Voltage



9	HOLD UP TIME (Typ.)	230VAC 75%/ 16ms 230VAC 100%/9ms	I/P： 230 VAC O/P：75% LOAD O/P：100% LOAD Ta：25℃	17.2ms (75% load) 10.4ms (100% load)

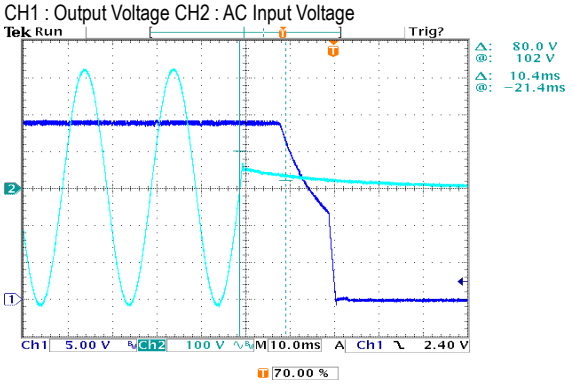
INPUT=230VAC/50HZ @75% LOAD

CH1 : Output Voltage CH2 : AC Input Voltage



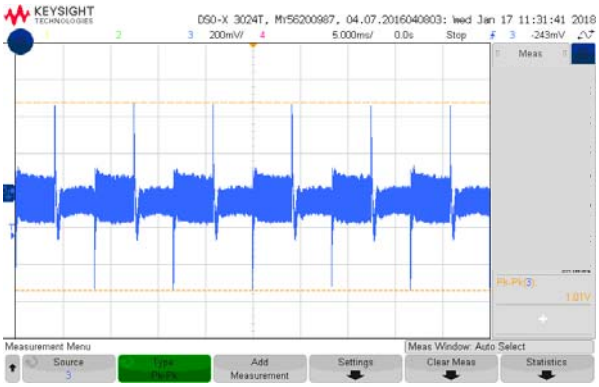
INPUT=230VAC/50HZ @100% LOAD

CH1 : Output Voltage CH2 : AC Input Voltage

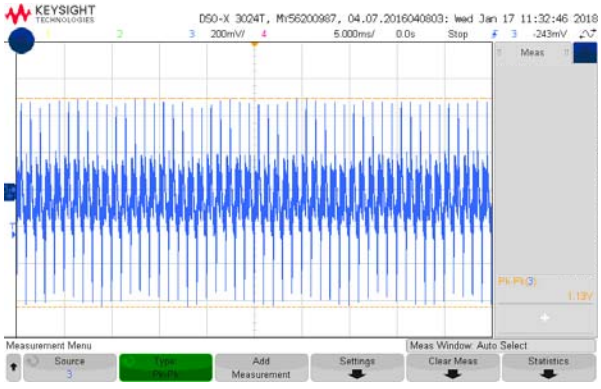


10	DYNAMIC LOAD	V1: 2400 mVp-p	I/P: 230VAC O/P: (1)FULL /50% LOAD 50%DUTY / 120HZ (2)FULL /50% LOAD 50%DUTY / 1KHZ Ta:25℃	 1010mVp-p(120HZ) 1130mVp-p(1KHZ)

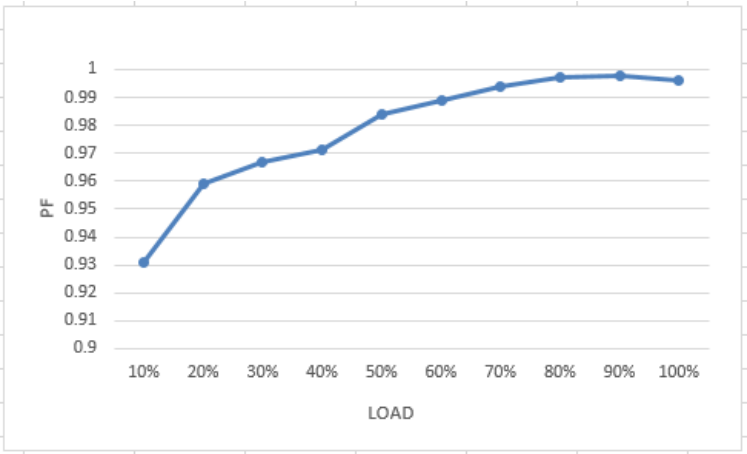
FULL /50% LOAD 50%DUTY / 120HZ

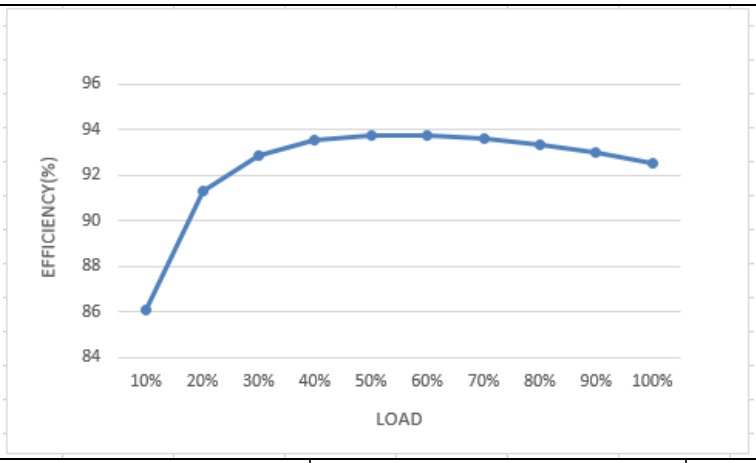


FULL /50% LOAD 50%DUTY / 1KHZ



INPUT FUNCTION TEST

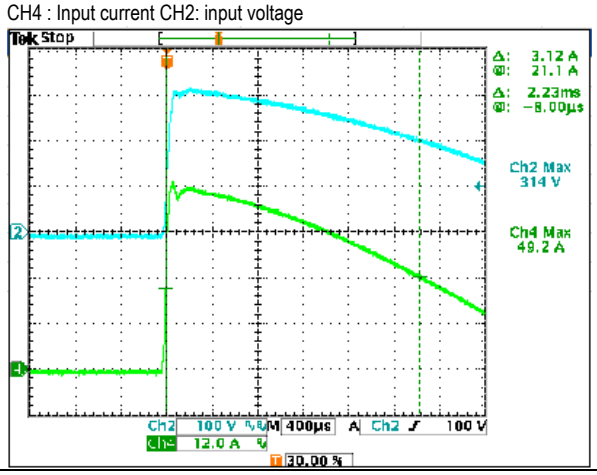
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	90VAC~264VAC 127VDC~370VDC	(1)I/P:AC TESTING O/P: FULL / 50% LOAD (2) I/P:DC TESTING(L:+ N:-) O/P: FULL / 50% LOAD (3) I/P:DC TESTING(L:- N:+) O/P: FULL / 50% LOAD Ta:25℃	(1)164Vac~264Vac/FULL LOAD 85Vac~264Vac/50%LOAD (2)242Vdc~370Vdc/FULL LOAD 108Vdc~370Vdc/50% LOAD (3) 242Vdc~370Vdc/FULL LOAD 107Vdc~370Vdc/50% LOAD
			I/P: (1)LOW-LINE-3V=87V HIGH-LINE+15%=300 V O/P:FULL/MIN LOAD (PLEASE CHECK DERATING CURVE) ON: 30 Sec OFF: 30 Sec 10MIN (2)230Vac ON: 0.5 Sec OFF: 0.5 Sec 20MIN (3)230Vac ON:3Sec OFF:3Sec 12HOURS (POWER ON/OFF NO DAMAGE) Ta:25℃	TEST:OK
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P:180 VAC ~264 VAC O/P:FULL~MIN LOAD Ta:25℃	TEST: OK
3	INPUT CURRENT (Typ.)	230V/ 17 A	I/P ： 230 VAC O/P ： FULL LOAD Ta ： 25℃	I =15.32 A/ 230VAC
4	LEAKAGE CURRENT	<2 mA / 230 VAC	I/P ： 230 VAC O/P ： Min LOAD Ta ： 25℃	L-FG ： 0.85 mA N-FG ： 0.85 mA
5	POWER FACTOR (Typ.)	0.97 / 230VAC	I/P ： 230 VAC O/P ： FULL LOAD Ta ： 25℃	PF= 0.996/230VAC
	P.F vs LOAD			
6	EFFICIENCY(Typ.)	93.5% / (75%LOAD)	I/P:230 VAC O/P:75%LOAD Ta:25℃	93.63%
	EFFICIENCY vs LOAD			



7	INRUSH CURRENT(Typ.)	230V/55 A COLD START	I/P： 230 VAC O/P：FULL LOAD Ta：25℃	I =49.2A/ 230VAC T50=2230 us/230V

INPUT=230VAC/50HZ @ FULL LOAD

CH4 : Input current CH2: input voltage



PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER LOAD PROTECTION	105 %~ 115 % PROTECTION TYPE： Constant current limiting, shut down O/P voltage 5 sec. after O/P voltage is down low, re-power on to recover	I/P: 264VAC I/P: 230VAC I/P: 180VAC O/P:TESTING Ta:25℃	110.45%/ 264VAC 110.45%/ 230VAC 110.22%/180VAC PROTECTION TYPE：Constant current limiting, shut down O/P voltage 5 sec. after O/P voltage is down low, re-power on to recover
2	OVER VOLTAGE PROTECTION	31.5 V~ 37.5 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℃	33.35V/ 264VAC 33.33V/ 230VAC 33.35V/ 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 ROTECTION TYPE：Shut down o/p voltage, recovers automatically after temperature goes down

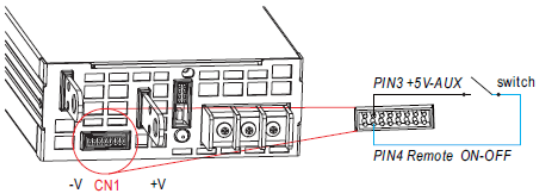
4	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE PROTECTION TYPE： Constant current limiting, shut down O/P voltage 5 sec. after O/P voltage is down low, re-power on to recover	I/P: 264VAC I/P: 90VAC O/P: FULL LOAD Ta:25℃	NO DAMAGE PROTECTION TYPE：Constant current limiting, shut down O/P voltage 5 sec. after O/P voltage is down low, re-power on to recover

CONTROL FUNCTION TEST

<table>
<tr><th>NO</th><th>TEST ITEM</th><th>SPECIFICATION</th><th>TEST CONDITION</th><th>RESULT</th></tr>
<tr><td>1</td><td>AUXILIARY POWER (AUX)</td><td colspan="3">1.Auxiliary voltage output, 10.6~13.2V, referenced to GND-AUX (pin2).
The maximum load current is 0.8A. This output has the built-in "Oring diodes" and is not controlled by “Remote ON-OFF.
2.Auxiliary voltage output, 4.5~5.5V, referenced to GND-AUX (pin2).
The maximum load current is 0.3A. This output has the built-in "Oring diodes" and is not controlled by “Remote ON-OFF

I/P: 230 VAC
O/P:FULL LOAD
Ta:25℃

Test Result：
<table>
<tr><th>AUX</th><th>TOLERANCE</th><th>RIPPLE</th><th>TEST RESULT</th></tr>
<tr><td>12V / 0.8A</td><td>10.8~13.2 V</td><td>450mVp-p</td><td>12.128V /0.8A
121 mVp-p</td></tr>
<tr><td>5V / 0.3A</td><td>4.5 ~ 5.5V</td><td>150mVp-p</td><td>4.71V/0.3A
117 mVp-p</td></tr>
</table></td></tr>
<tr><td>2</td><td>REMOTE ON/OFF CONTROL</td><td colspan="3">※ The power supply can be turned ON/OFF individually or along with other units by using the "Remote ON-OFF" function.

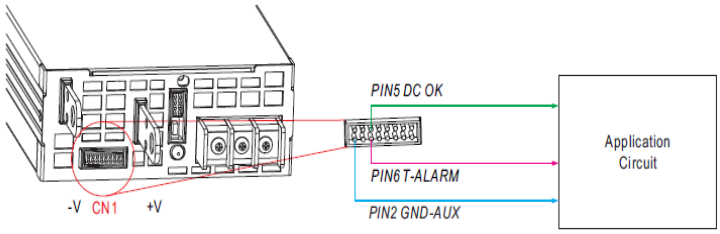
 

<table>
<tr><th>Between Remote ON-OFF and +5V-AUX</th><th>Power Supply Status</th></tr>
<tr><td>Switch Short</td><td>ON</td></tr>
<tr><td>Switch Open</td><td>OFF</td></tr>
</table>
I/P: 230 VAC
O/P:FULL LOAD
Ta:25℃

Test Result：
<table>
<tr><th>Between 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></td></tr>
<tr><td>3</td><td>REMOTE SENSE</td><td>S+ / S-
>0.5V
Compensate voltage drop on the load wiring up to 0.5V.</td><td>I/P: 230 VAC
O/P:FULL LOAD
Ta:25℃</td><td>> 0.5 V</td></tr>
</table>

4 ALARM SIGNAL

※ There are 2 alarm signals, DC OK and T-ALARM, in TTL signal form, on CN1. These signals are isolated from output. The maximum sink current is 10mA.



➢ DC OK SIGNAL

High (4.5 ~ 5.5V) : When the Vout ≦ 80%±5%.

Low (-0.1 ~ 0.5V) : When Vout ≧ 80%±5%.

The maximum sourcing current is 10mA and only for output.

I/P: 230 VAC
O/P:FULL LOAD
Ta:25℃

Test Result：

Vout	DC OK SIGNAL
Vout≦ 75%	4.9612V
Vout≧ 85%	0.0081v

➢ T-ALARM

High (4.5 ~ 5.5V) : When the internal temperature exceeds the limit of temperature alarm, or when Fan fails.

Low (-0.1 ~ 0.5V) : When the internal temperature is normal, and when Fan works normally.

The maximum sourcing current is 10mA and only for output

I/P: 230 VAC
O/P:FULL LOAD
Ta:25℃

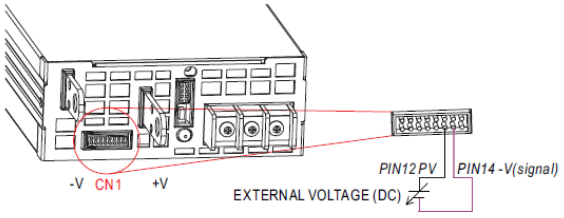
Test Result：

P.SU STATUS	Vo	T-ALARM SPEC	T-ALARM TEST
NORMAL	100%±2%	-0.1 ~0.5V	0.0081v
OTP	0V	4.5~5.5V	4.961V
FAN LOCK	0V	4.5~5.5V	4.961V

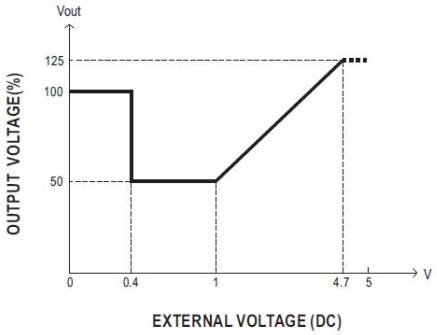
5 OUTPUT VOLTAGE PROGRAMMABLE (PV)

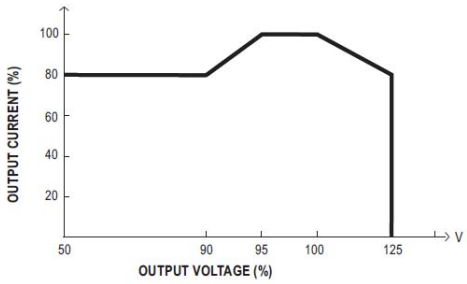
. Output Voltage Programming (or, PV / remote voltage programming / remote adjust / margin programming / dynamic voltage trim)

※ In addition to the adjustment via the built-in potentiometer, the output voltage can be trimmed to 50~125% of the nominal voltage by applying EXTERNAL VOLTAGE.



◎ For Remote Sense / Local Sense, please refer to "Voltage Drop Compensation" section.



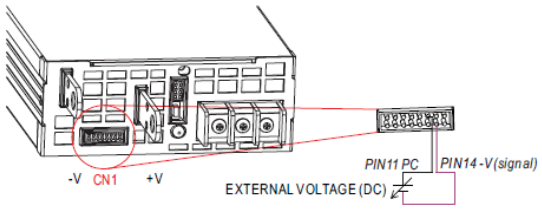


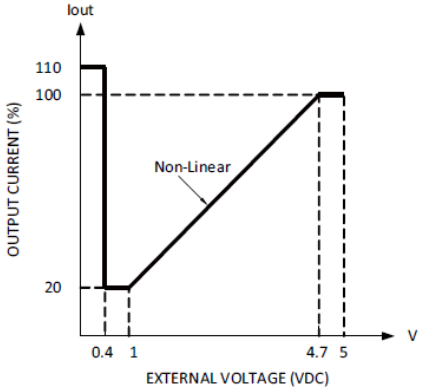
◎ The rated current should change with the Output Voltage Programming accordingly.
◎ For Remote Sense / Local Sense, please refer to "Voltage Drop Compensation" section.

I/P: 230 VAC
O/P:FULL LOAD
Ta:25℃
TEST RESULT：

PV / MODEL	<0.3V	1V	3.435V	4.7V	5V
SPEC	24V±5%	12V±5%	24V±5%	30V±5%	30V±5%
Vout	24.03V	12.063V	24.068V	30.47V	30.99V

6 OUTPUT CURRENT PROGRAMMABLE (PC)





◎ For Remote Sense / Local Sense, please refer to "Voltage Drop Compensation" section.

I/P: 230 VAC
O/P:TESTING
Ta:25℃

ADJ V	<0.4V	1V	4.7V	5V
SPEC	110%±5%	20%±5%	100%±5%	100%±5%
TEST	110.37%	21.2%	100%	102.25%

COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	
1	PWM Transistor (D to S) or (C to E) **Peak Voltage**	Q1 Rated 52A/600V Q3 Rated 52A/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. PV=1V (8)100% LOAD (9)50% LOAD (10)10% LOAD	Q1: VDS: (1)477 V (2)481 V (3)489V (4)493V (5)497V (6)493V (7)501V (8)477 V (9)469V (10)433V	Q3 VDS: (1)493 V (2)501 V (3) 493V (4)497V (5)501V (6)493V (7)493V (8)497 V (9) 493V (10)413 V
2	P.F.C Transistor (D to S) or (C to E) **Peak Voltage**	Q 900 Rated 52 A/600V Q 902 Rated 52 A/600V	I/P:High-Line +3V =267 V 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.	Q900: VDS: (1)505V (2)505V (3)505V (4)501V (5)503V (6)473V (7)477V	Q902: VDS: (1)493V (2)493V (3)491V (4)493V (5)497V (6)477V (7)457V
3	P.F.C DIODE	D8 Rated 16 A/600V	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/5KHz (4)Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz Ta:25℃	(1) 441V (2) 449V (3) 421V (4) 421V	
4	Diode Peak **Voltage**	Q101 Rated 100 A/100 V Q104 Rated 100 A/100 V Q107 Rated 100 A/100 V	I/P:High-Line +3V =267 V 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	Q101: VDS: (1)85.7V (2)95V (3)68.8V (4)68.8V (5)68.8V (6)68V (7)67.2V (8)68V (9)58.3	Q104: VDS: (1)72.1V (2)83.4V (3)64.9V (4)64.1V (5)64.9V (6)62.5V (7)64.1V (8)71.3V (9)60.3V

		Q110 Rated 100 A/100 V	(7)0%→400% Load. (8).NO LOAD (9) burst mode	Q107: VDS: (1)77.7V (2)96.2V (3)66.5V (4)68.1V (5)68.6V (6)69.4V (7)68.6V (8)69.4V (9)71V	Q110: VDS: (1)80.2V (2)93.1V (3)74.6V (4)73.4V (5)68.2V (6)69.8V (7)70.5V (8)61.8V (9)65.8V
5	**Input Capacitor Voltage**	C5 Rated: 330μ/ 450V 105 ℃	I/P:High-Line +3V =267V 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℃	(1)432V (2)424V (3)448V (4) 432V	
6	**Control IC Voltage Test**	PWM IC U201 Rated 6.5 V~30V PFC IC U900 Rated 4.5V~20 V	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. (5)NO LOAD VRMIN.(LOW LINE) Ta:25℃	U201 (1) 14.9V (2) 15.1V (3) 15.1 (4) 12.7V (5) 13.3V	U900 (1) 13.9V (2)14.5V (3)14.9V (4)13.5V (5)12.7V
7	TOP SWITCHING STAND BY POWER	U71 Rate 20 A/ 800V	I/P:High-Line +3V =267 V AC ON/OFF O/P: (1)Full Load (2)Remote On/Off Ta:25℃	(1) 645V (2) 645V	

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℃	I/P-O/P: 12.04 mA I/P-FG: 10.73mA O/P-FG: 23 m 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℃	I/P-O/P: 13 GΩ I/P-FG: 2.86GΩ O/P-FG: 5 GΩ NO DAMAGE
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40A / 2min Ta:25℃	25mΩ

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℃	Test by certified Lab
2	CONDUCTION	EN55022 CLASS B	I/P： 230 VAC (50HZ) O/P：FULL/50% LOAD Ta：25℃	Test by certified Lab

3	RADIATION	EN55022 CLASS A	I/P： 230 VAC (50HZ) O/P：FULL LOAD Ta：25℃	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℃	CRITERIA A
5	E.F.T	EN61000-4-4 INDUSTRY INPUT： 2KV	I/P： 230 VAC/50HZ O/P：FULL LOAD Ta：25℃	CRITERIA A
6	SURGE	IEC61000-6-2 INDUSTRY L-N ：2KV L,N-PE：4KV	I/P： 230 VAC/50HZ O/P：FULL LOAD Ta：25℃	CRITERIA A
7	Test by certified Lab & Test Report Prepare			

■ RELIABILITY TEST

ENVIRONMENT TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	TEMPERATURE RISE TEST	MODEL： DPU-3200-24 1. ROOM AMBIENT BURN-IN：1 HRS I/P： 230VAC O/P： FULL LOAD 2. HIGH AMBIENT BURN-IN： 1 HRS I/P： 230VAC O/P： FULL LOAD		

NO	Position	ROOM AMBIENT Ta= 25℃	HIGH AMBIENT Ta= 50℃
1	BD1	71.0℃	97.3℃
2	RY1	36.7℃	62.6℃
3	D7	71.0℃	98.2℃
4	D8	68.9℃	96.3℃
5	T3	47.2℃	73.3℃
6	U900	39.8℃	66.3℃
7	Q900	58.8℃	86.1℃
8	Q902	69.0℃	96.9℃
9	C5	52.9℃	81.7℃
10	U902	43.4℃	70.5℃
11	Q1	71.3℃	101.7℃
12	Q3	74.1℃	104.9℃
13	T1-2	70.0℃	99.3℃
14	T1-1	71.7℃	100.9℃
15	T2-2	81.8℃	112.2℃
16	T2-1	83.8℃	114.9℃
17	T301	58.0℃	85.3℃
18	U71	77.7℃	107.4℃
19	U201	60.0℃	89.6℃
20	C111	28.4℃	52.9℃
21	C121	41.0℃	66.8℃
22	C115	33.4℃	58.7℃
23	C116	39.0℃	64.8℃
24	Q401	53.5℃	80.2℃
25	Q411	41.7℃	67.2℃
26	Q101	54.2℃	82.2℃
27	Q108	75.3℃	105.0℃
28	U425	49.9℃	77.3℃
29	RT90	56.1℃	83.3℃
30	U903	51.5℃	78.6℃
31	RG76	51.5℃	77.3℃
32	U501	35.2℃	60.2℃
33	L1	53.0℃	79.9℃
34	L3	77.7℃	104.7℃
35	R900	46.4℃	72.6℃
36	ZR2	31.4℃	57.1℃
37	LF1	41.0℃	67.8℃
38	C2	31.4℃	57.1℃
39	C10	31.2℃	57.1℃
40	ZR1	28.0℃	53.4℃
41	RT1	31.7℃	57.3℃
42	Q104	65.9℃	94.2℃
43	RG75	43.6℃	68.6℃
44	RG91	51.4℃	78.0℃
45	D52	50.9℃	79.2℃

2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)	I/P： 230 VAC O/P： 108 % 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= -30℃/-25℃	TEST：OK

4	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 50 ℃ NO DAMAGE	I/P： 272 VAC O/P：FULL LOAD Ta= 50℃ HUMIDITY= 95 %R.H	TEST：OK
5	TEMPERATURE COEFFICIENT	± 0.03 %/℃(0~50℃)	I/P： 230 VAC O/P：FULL LOAD	± 0 %/℃(0~50℃)
6	STORAGE TEMPERATURE TEST	1. Thermal shock Temperature： -45℃~ +90℃ 2. Temperature change rate ：25℃ / MIN 3. Dwell time low and high temperature ： 30 MIN/EACH 4. Total test cycle：10 CYCLE 5. Input/Output condition： STATIC		OK
7	THERMAL SHOCK TEST	1. Thermal shock Temperature： -35℃~ +55℃ 2. Temperature change rate ：25℃ / 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		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℃		TEST：OK
9	CAPACITOR LIFE CYCLE	SUPPOSE C121 IS THE MOST CRITICAL COMPONENT (1) I/P： 230VAC O/P：FULL LOAD Ta= 25 ℃ LIFE TIME (2) I/P： 230VAC O/P：FULL LOAD Ta= 50 ℃ LIFE TIME (3) I/P： 230VAC O/P：75% LOAD Ta= 50 ℃ LIFE TIME (4) I/P： 230VAC O/P：50% LOAD Ta= 50 ℃ LIFE TIME		(1) 284793HRS (2) 49666HRS (3) 186482HRS (4) 374724HRS
10	MTBF	Conducted by Parts Stress Analysis Prediction 168K hrs min. Telcordia SR-332 (Bellcore) ; 44.9K hrs min. MIL-HDBK-217F (25℃)		
11	DMTBF/Accelerated Life Test	Demonstration Mean Time Between Failure (Expected Life): Above 50,000 hours @ TA 50℃		

TEST RESULT	TESTER	REVIEW	APPROVAL
PASS	DANIEL GAO	SANFORD SU	VINCENT TSENG