



Test Report: NPF-200-54

200W Constant Voltage+Constant Current LED Driver

■ 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

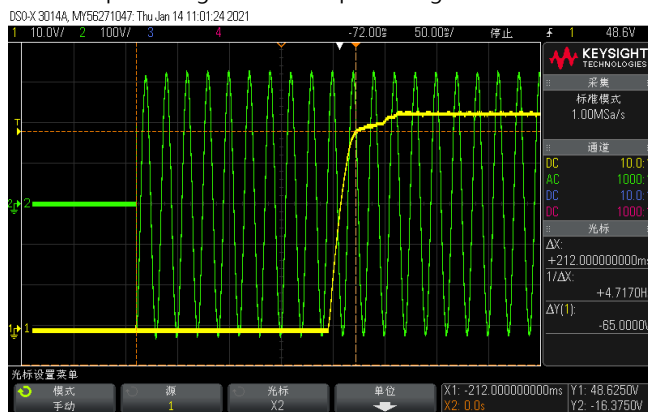
DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	CURRENT TOLERANCE	±5%	I/P: 230 VAC I/P:115VAC O/P:FULL LOAD Ta:25°C LEDL MODE TEST	3.07~3.18%
2	CONSTANT CURRENT AND OUTPUT VOLTAGE REGION	CH1: 27V~ 54V	I/P: 230 VAC O/P:FULL LOAD Ta:25°C LEDL MODE TEST	18.2V~ 54 V /230VAC
3	OUTPUT VOLTAGE TOLERANCE	V1: -2 % ~2% (Max)	I/P:110 /305 VAC O/P:FULL~MIN LOAD Ta:25°C	V1: 0.61%~ 0.74%
4	LINE REGULATION	V1: -0.5% ~ 0.5% (Max)	I/P:110 /305 VAC O/P:FULL LOAD Ta:25°C	V1: 0%~ 0.018 %
5	LOAD REGULATION	V1: -0.5% ~0.5% (Max)	I/P:110 /305 VAC O/P:FULL ~MIN LOAD Ta:25°C	V1: -0.037 %~ 0.055 %
6	OVER/UNDERSHOOT TEST	< +5%	I/P:110 /305 VAC O/P:FULL LOAD Ta:25°C	TEST: 1.19 %
7	CURREN RIPPLE	V1: -5% ~ +5% (Max)	I/P:110VAC /305AC O/P:FULL/ MIN LOAD Ta:25°C	V1: 2.27%~ 3.05%
8	SET UP TIME (Max)	230VAC/500ms 115VAC/500ms	I/P: 230 VAC I/P: 115 VAC O/P:FULL LOAD Ta:25°C LEDL MODE TESTT	230VAC/ 212ms 115 VAC/ 320ms

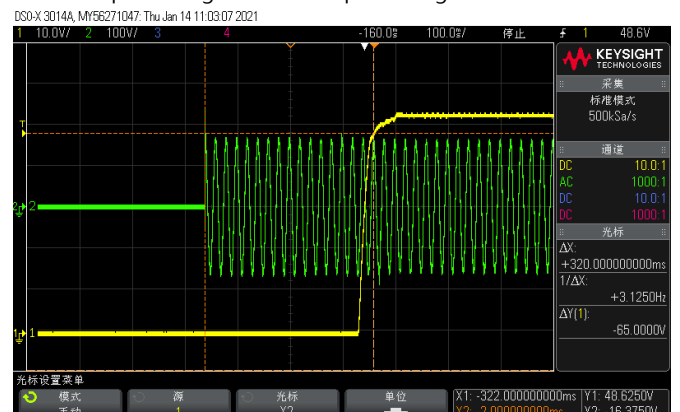
INPUT=230VAC/50HZ @ FULL LOAD

CH1 : Output Voltage CH2 : AC Input Voltage

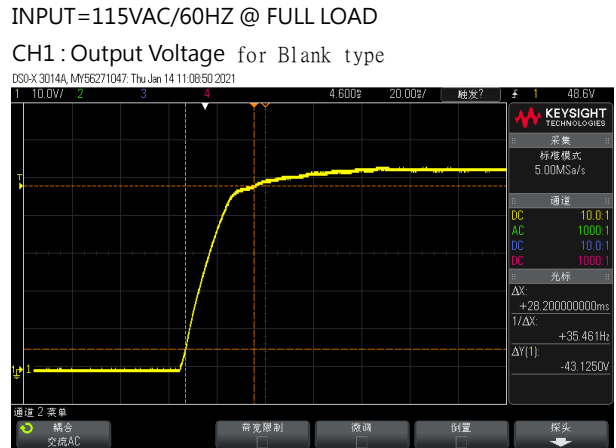
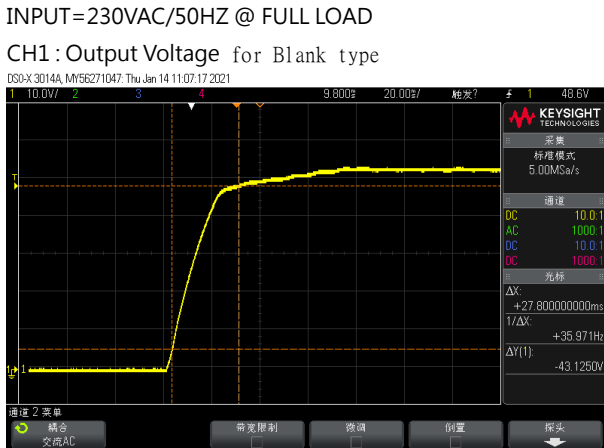
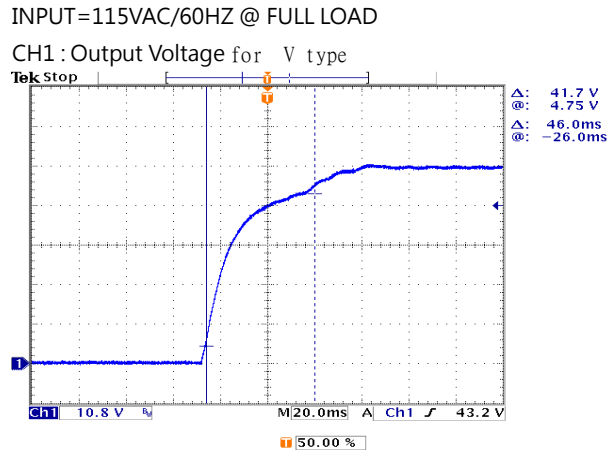
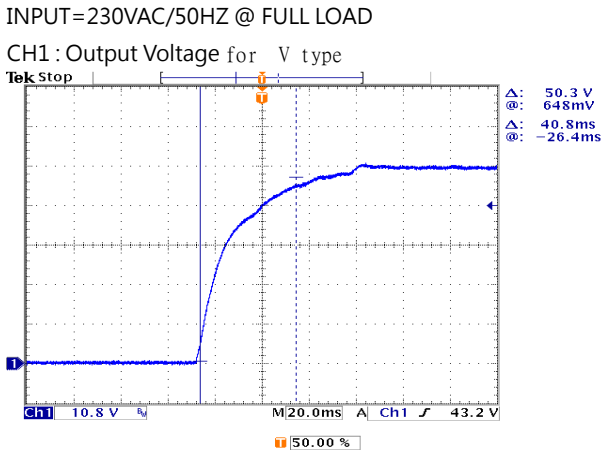


INPUT=115VAC/60HZ @ FULL LOAD

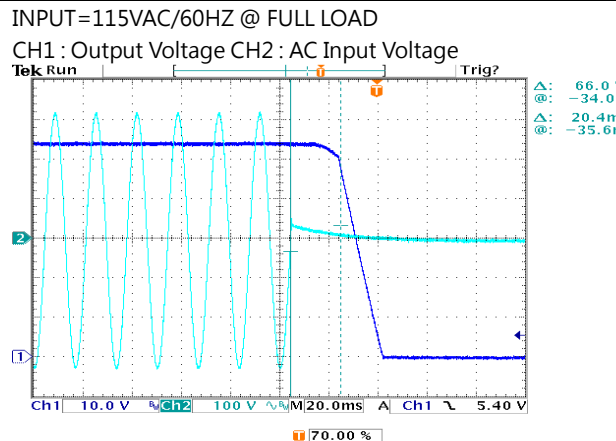
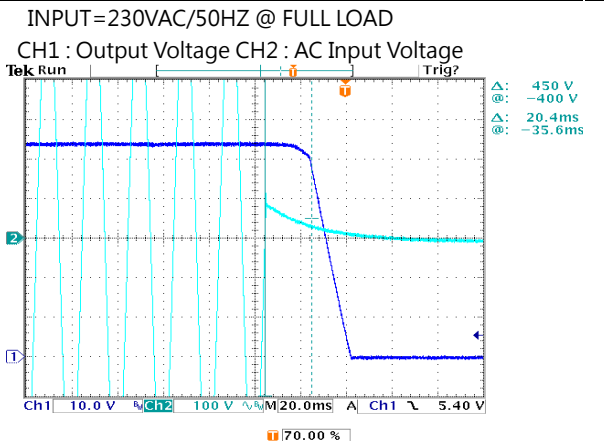
CH1 : Output Voltage CH2 : AC Input Voltage

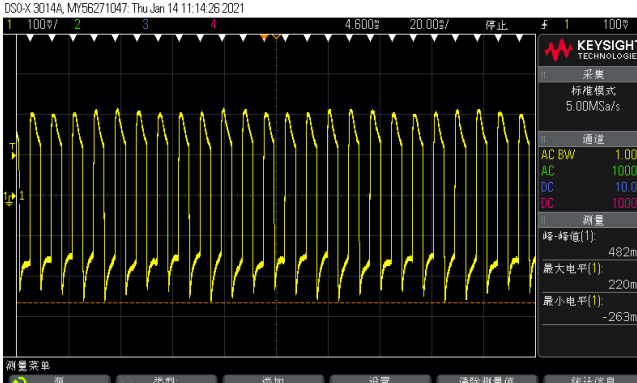
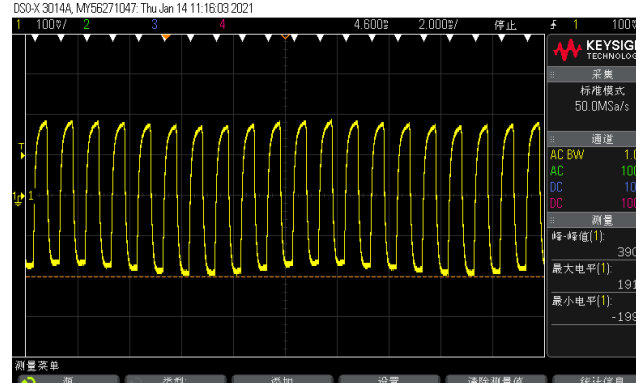
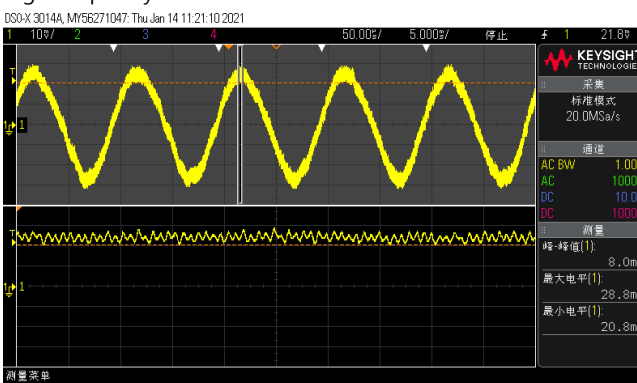
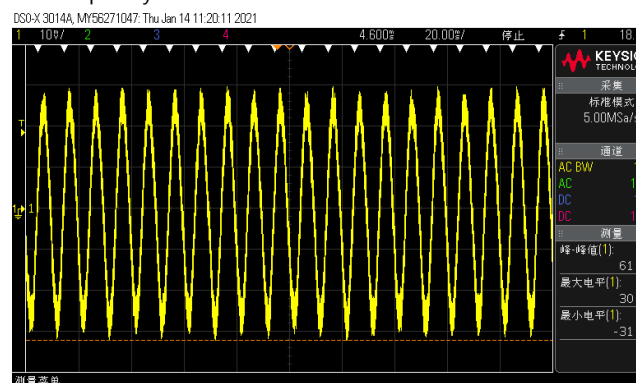


9	RISE TIME (Max)	230VAC/ 80ms for Blank type 115VAC/ 80ms for Blank type 230VAC/ 200ms for V type 115VAC/ 200ms for V type	I/P: 230 VAC I/P: 115 VAC O/P:FULL LOAD Ta:25°C LEDL MODE TEST	230VAC/ 27.8ms for Blank type 115 VAC/ 28.2ms for Blank type 230VAC/ 40.8ms for V type 115 VAC/ 46ms for V type
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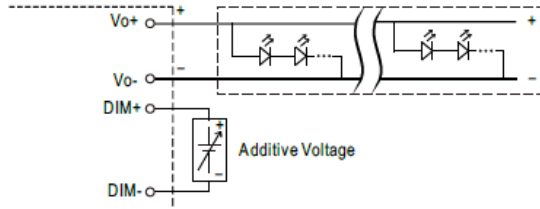


10	HOLD UP TIME (Max)	230VAC/10ms 115VAC/10ms	I/P: 230 VAC I/P: 115 VAC O/P:FULL LOAD Ta:25°C LEDH MODE TEST	230VAC/20.4ms 115 VAC/20.4ms
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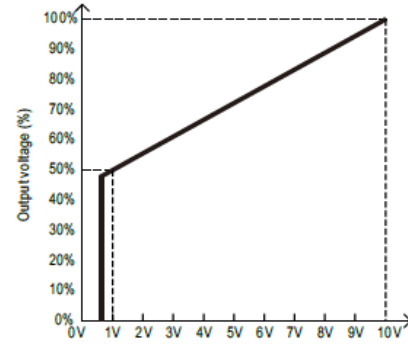


11	DYNAMIC LOAD	V1: 5400mVp-p	I/P: 230VAC O/P: (1)FULL /50% LOAD 50%DUTY / 120HZ (2)FULL /50% LOAD 50%DUTY / 1KHZ Ta:25°C	482mVp-p FULL /50% LOAD 50%DUTY / 120HZ 390mVp-p FULL /50% LOAD 50%DUTY / 1KHZ
<p>FULL /50% LOAD 50%DUTY / 120HZ</p> 		<p>FULL /50% LOAD 50%DUTY / 1KHZ</p> 		
12	RIPPLE & NOISE (Max)	V1: 350mVp-p	I/P: 230 VAC O/P:FULL LOAD Ta:25°C CCH MODE TEST	V1: 61.9mVp-p
<p>high frequency :</p> 		<p>low frequency :</p> 		
13	DIMMING OPERATI ON (forV-Type)	<p>※ 3 in 1 dimming function to adjust output voltage level</p> <ul style="list-style-type: none"> • Output constant voltage can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal or resistance. • Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers. • Dimming source current from power supply: 100μA (typ.) 		

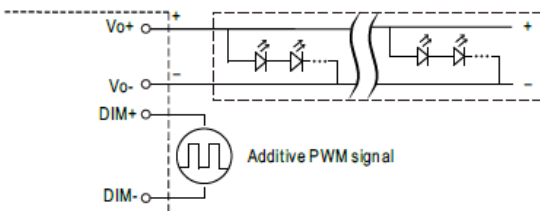
◎ Applying additive 0 ~ 10VDC



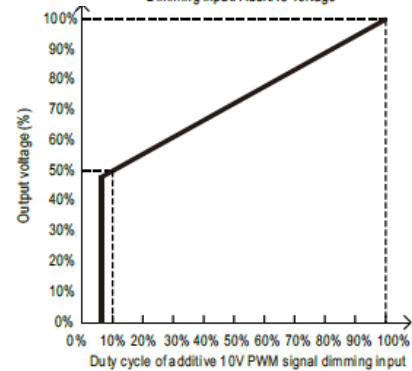
"DO NOT connect *DIM- to Vo-"



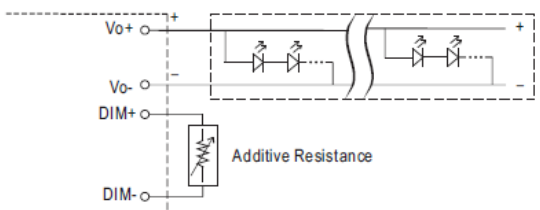
◎ Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):



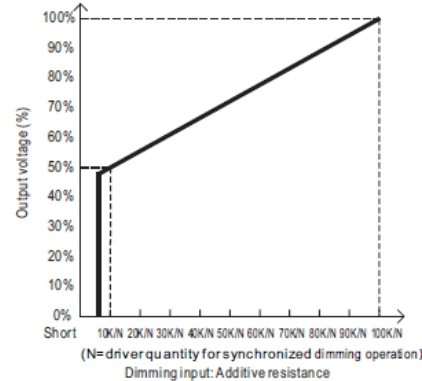
"DO NOT connect *DIM- to Vo-"



◎ Applying additive resistance:



"DO NOT connect *DIM- to Vo-"



Note : 1. Min. dimming level is about 50% of output voltage and the output voltage is not defined when $V_{out} < 50\%$
 2. The output voltage could drop down to 0V when dimming input is about 0k or 0Vdc, or 10V PWM signal with 0% duty cycle.

I/P : 230 VAC O/P : DIMMING TEST

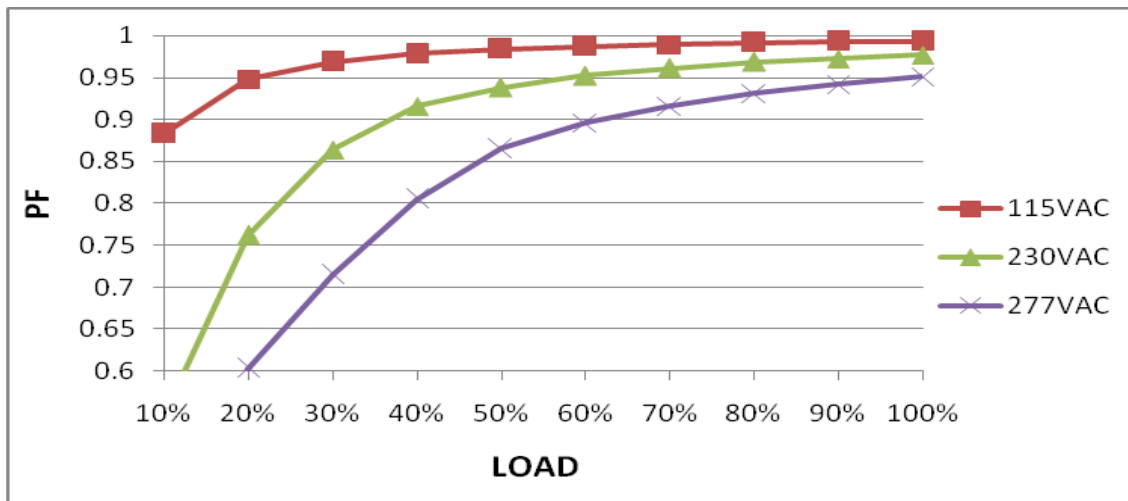
	V	SHORT	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
1	Output Voltage	0.00000 V	26.67	29.59	32.34	35.05	38.07	41.09	44.23	47.45	50.77	54.21	54.18
	%	0.00%	49.39 %	54.80 %	59.89%	64.91%	70.50 %	76.09 %	81.91 %	87.87 %	94.02 %	100.39 %	100.33 %
	PWM	0V	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
2	Output Voltage (100Hz)	0.00000 V	27.26	30.07	32.90	35.84	38.80	41.83	44.98	48.13	51.39	53.94	54.15
	%	0.00%	50.48 %	55.69 %	60.93%	66.37%	71.85 %	77.46 %	83.29 %	89.13 %	95.17 %	99.89%	100.28 %
	R	0%	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	OPEN
3	Output Voltage	0.00000 V	27.23	30.06	32.91	35.86	38.83	41.72	44.99	48.14	51.39	53.94	53.95
	%	0.00%	50.43 %	55.67 %	60.94%	66.41%	71.91 %	77.26 %	83.31 %	89.15 %	95.17 %	99.89%	99.91%

TEST RESULT : OK

INPUT FUNCTION TEST

N O	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	100VAC~305 VAC 142VDC~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 (PLEASE CHECK DERATING CURVE) Ta:25°C	(1) 97V~308VAC (2) 242Vdc~431Vdc/FULL LOAD 142Vdc~431Vdc/50% LOAD (3) 242Vdc~431Vdc/FULL LOAD 142Vdc~431Vdc/50% LOAD
			I/P: LOW-LINE-3V=107 VAC HIGH-LINE+10V=315 VAC 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: 110 VAC ~305VAC O/P:FULL~MIN LOAD Ta:25°C	OK
3	INPUT CURRENT (TYP)	277VAC/ 0.9A 230 VAC/ 1.1A 115 VAC/ 2.2A	I/P: 277VAC/230 VAC/115 VAC O/P:FULL LOAD Ta:25°C	I= 0.76A/277VAC I= 0.90A/ 230VAC I= 1.80A/ 115VAC
4	STANDBY POWER CONSUMPTION	<0.5W for V-type only	I/P : 230 VAC O/P : Output voltage dim to off Ta : 25°C	0.4128W
5	POWER FACTOR(TYP)	0.96/230 VAC FULL LOAD 0.97/115 VAC FULL LOAD 0.94/277 VAC FULL LOAD	I/P: 230 VAC/115VAC/277VAC O/P:FULL LOAD Ta:25°C	PF= 0.977/230V/100%LOAD PF= 0.993/115V/100%LOAD PF= 0.951/277V/100%LOAD

P.F vs LOAD



6	EFFICIENCY (TYP)	94%	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	94.91 %																																												
<p>EFFICIENCY vs LOAD</p> <table border="1"> <caption>Efficiency vs Load Data</caption> <thead> <tr> <th>LOAD (%)</th> <th>115VAC (%)</th> <th>230VAC (%)</th> <th>277VAC (%)</th> </tr> </thead> <tbody> <tr><td>10%</td><td>85</td><td>89</td><td>90</td></tr> <tr><td>20%</td><td>92</td><td>94</td><td>94</td></tr> <tr><td>30%</td><td>93</td><td>94</td><td>94</td></tr> <tr><td>40%</td><td>93</td><td>94</td><td>94</td></tr> <tr><td>50%</td><td>93</td><td>94</td><td>94</td></tr> <tr><td>60%</td><td>93</td><td>94</td><td>94</td></tr> <tr><td>70%</td><td>93</td><td>94</td><td>94</td></tr> <tr><td>80%</td><td>93</td><td>94</td><td>94</td></tr> <tr><td>90%</td><td>93</td><td>94</td><td>94</td></tr> <tr><td>100%</td><td>93</td><td>94</td><td>94</td></tr> </tbody> </table>					LOAD (%)	115VAC (%)	230VAC (%)	277VAC (%)	10%	85	89	90	20%	92	94	94	30%	93	94	94	40%	93	94	94	50%	93	94	94	60%	93	94	94	70%	93	94	94	80%	93	94	94	90%	93	94	94	100%	93	94	94
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7	INRUSH CURRENT (TYP)	230 V/ 65 A (twitwh=420us measured at 50% Ipeak) COLD START	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	I = 52.8A/ 230VAC T50= 477.8 us																																												
<p>INPUT=230VAC/50HZ @ FULL LOAD CH1 : AC Input Voltage CH4 : Input current</p> <table border="1"> <caption>Inrush Current Measurement Data</caption> <thead> <tr> <th>Point</th> <th>Time (s)</th> <th>Current (A)</th> </tr> </thead> <tbody> <tr><td>a</td><td>600.0ns</td><td>22.80 A</td></tr> <tr><td>b</td><td>478.4µs</td><td>24.40 A</td></tr> <tr><td>c</td><td>477.8µs</td><td>Δ1.600 A</td></tr> </tbody> </table>					Point	Time (s)	Current (A)	a	600.0ns	22.80 A	b	478.4µs	24.40 A	c	477.8µs	Δ1.600 A																																
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8	TOTAL HARMONIC DISTORTION	THD<20%(@load 60%/115VC,230VAC; @load 75%/277VAC)	I/P : 115/230VAC O/P : 60% LOAD Ta : 25°C I/P : 277VAC O/P : 75% LOAD Ta : 25°C	THD : 12.58%/ 60% Load/115VAC THD : 15.47%/60% Load/230VAC THD : 16.26%/75% Load/277VAC																																												
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ROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER CURRENT PROTECTION	95%~ 108%	I/P: 305VAC I/P: 230VAC I/P: 110VAC O/P:TESTING Ta:25°C	103.7%/ 305VAC 103.8%/ 230VAC 103.6%/100VAC PROTECTION TYPE : Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed
2	OVER VOLTAGE PROTECTION	V1: 59V~ 70V	I/P: 305VAC I/P: 230VAC I/P: 110VAC O/P:MIN LOAD Ta:25°C	62.15V/ 305VAC 62.11V/ 230VAC 62.11/ 110VAC PROTECTION TYPE : Shut down o/p voltage, re-power on to recover
3	OVER TEMPERATURE PROTECTION	NO DAMAGE	I/P: 305 VAC I/P: 110 VAC 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: 110 VAC O/P: FULL LOAD Ta:25°C	NO DAMAGE PROTECTION TYPE : Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed

COMPONENT STRESS TEST

N O	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Transistor (D to S) or (C to E) Peak Voltage	Q73 Rated 11 A/ 600V	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) LEDmax (9)LEDmin	VDS: (1) 469V (2) 493V (3) 456V (4) 464V (5) 469V (6) 473V (7) 489V (8) 460V (9) 469V

			<p>I/P:Low-Line -3V =107V 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) LEDmax (9)LEDmin Ta:25°C</p>	<p>VDS: (1) 452V (2) 485V (3) 464V (4) 460V (5) 464V (6) 469V (7) 489V (8) 460V (9) 460V</p>
2	P.F.C Transistor (D to S) or (C to E) Peak Voltage	Q 1 Rated 26A/ 600V	<p>AC ON/OFF</p> <p>I/P:High-Line +3V =308 V 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) LEDmax (9)LEDmin</p> <p>I/P:Low-Line -3V = 107V 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) LEDmax (9)LEDmin Ta:25°C</p>	<p>VDS: (1) 529V (2) 481V (3) 533V (4) 525V (5) 525V (6) 521V (7) 485V (8) 517V (9) 529V</p> <p>VDS: (1) 513V (2) 493V (3) 513V (4) 513V (5) 509V (6) 509V (7) 489V (8) 513V (9) 513V</p>

3	P.F.C DIODE	D5 Rated 9A/600V	<p>AC ON/OFF</p> <p>I/P:High-Line +3V =308 V</p> <p>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) LEDmax (6)LEDmin</p> <p>I/P:Low-Line -3V = 107V</p> <p>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) LEDmax (6)LEDmin</p> <p>Ta:25°C</p>	<p>VDS:</p> <p>(1) 561V (2) 545V (3) 569V (4) 565V (5) 569V (6) 565V</p> <p>VDS:</p> <p>(1) 440V (2) 452V (3) 436V (4) 440V (5) 448V (6) 432V</p>
4	Diode Peak Voltage	<p>Q100 Rated 33A/ 150V</p> <p>Q101 Rated 33A/ 150V</p>	<p>AC ON/OFF</p> <p>I/P:High-Line +3V =308 V</p> <p>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) LEDmax (10)LEDmin</p> <p>Ta:25°C</p>	<p>Q100:</p> <p>VDS:</p> <p>(1) 119.9V (2) 15.1V (3) 119.9V (4) 120.7V (5) 119.9V (6) 120.7V (7) 15.3V (8) 115.9V (9) 119.1V (10) 70.9V</p> <p>Q101:</p> <p>VDS:</p> <p>(1) 117.5V (2) 16.7V (3) 118.3V (4) 118.3V (5) 119.1V (6) 119.1V (7) 18.3V (8) 115.1V (9) 117.5V (10) 70.1V</p>

5	Input Capacitor Voltage	C5 Rated: 100uF / 450 V	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 Ta:25°C	(1) 452V (2) 444V (3) 448V (4) 448V
6	Control IC Voltage Test	U1 Rated - 0.3V~35V U2 Rated - 0.3V to 20V U100 Rated - 0.3V~32V	AC ON/OFF I/P:High-Line +3V =308 V FOR C.V MODE TYPE O/P(1)FULL LOAD (2) Output Short (3)O.L.P (4)O.V.P. (5)NO LOAD VRmin.LOW LINE FOR C.C MODE TYPE O/P(6)LEDmax (7)LEDmin Ta:25°C	U1: (1) 18.8V (2) 17.6V (3) 17.4V (4) 17.2V (5) 15.6V (6) 19.0V (7) 17.6V U2 (1) 17.6V (2) 17.2 V (3) 17.4V (4) 17.2V (5) 16.6V (6) 17.8V (7) 17.8V U100 (1) 11.0V (2) 11.24V (3) 11.08V (4) 14.2V (5) 10.68V (6) 11.32V (7) 10.84V

SAFETY & EMC TEST

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC/min	I/P-O/P: 4.125 KVAC/min Ta:25°C	I/P-O/P: 2.318 mA NO DAMAGE
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ	I/P-O/P: 500 VDC Ta:25°C	I/P-O/P: 9999MΩ NO DAMAGE
3	LEAKAGE CURRENT	< 0.25mA / 277VAC	I/P: 277 VAC O/P:Min LOAD Ta:25°C	L-FG:0.061 mA N-FG:0.055mA

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	HARMONIC	EN61000-3-2 CLASS C	I/P: 230VAC/50HZ O/P:FULL LOAD Ta:25°C	PASS
2	CONDUCTION	EN55032 CLASS B	I/P: 230 VAC (50HZ) O/P:FULL/50% LOAD Ta:25°C	PASS Test by certified Lab
3	RADIATION	EN55032 CLASS B	I/P: 230 VAC (50HZ) O/P:FULL LOAD Ta:25°C	PASS Test by certified Lab
4	E.S.D	EN61000-4-2 LIGHT 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 LIGHT INDUSTRY INPUT: 1KV	I/P: 230 VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A
6	SURGE	IEC61000-4-5 INDUSTRY L-N :2KV	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 : NPF-200V-54 1. ROOM AMBIENT BURN-IN : 2HRS I/P : 230VAC O/P : FULL LOAD Ta=30 °C 2. HIGH AMBIENT BURN-IN : 2HRS I/P : 230VAC O/P : FULL LOAD Ta=47.8 °C																																																																																																														
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2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)	I/P : 230 VAC O/P : 101.9 %LOAD Ta : 25°C	TEST : OK																																																																																																												
3	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 305VAC/110VAC O/P : FULL LOAD Ta= -45/-30 °C	TEST : OK																																																																																																												



4	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 45 °C NO DAMAGE	I/P : 305 VAC O/P : FULL LOAD Ta= 45 °C HUMIDITY= 95 %R.H	TEST : OK
5	TEMPERATURE COEFFICIENT	$\pm 0.03 \%$ /(0°C~50°C)	I/P : 230 VAC O/P : FULL LOAD	$\pm 0.006 \%$ /(0~50°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 : 10CYCLE 5. Input/Output condition : STATIC	
7	THERMAL SHOCK TEST	-40~45°C	1. Thermal shock Temperature : -45°C~ +50°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, 5G 10min./1cycle, 60min. each along X, Y, Z axes	1 Carton & 1 Set (1) Waveform : Sine Wave (2) Frequency : 10~500Hz (3) Sweep Time : 12min/sweep cycle (4) Acceleration : 6G (5) Test Time : 180min in each axis (X.Y.Z) (6) Ta : 25°C	
9	CAPACITOR LIFE CYCLE	SUPPOSE C106 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=45 °C LIFE TIME (3) I/P : 230VAC O/P : 75% LOAD Ta=45 °C LIFE TIME (4) I/P : 230VAC O/P : 50% LOAD Ta=45 °C LIFE TIME		(1) 708714HRS (2) 184702HRS (3) 252190HRS (4) 326751 HRS
10	MTBF	Conducted by Parts Stress Analysis Prediction 2625.4K hrs min. Telcordia SR-332 (Bellcore); 247.5K 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	WUWQ/HUANGMK	WENF	LINKX

2018.4.30

GP-A50-F010