



Test Report: SPWM-75-12

75W Constant Voltage PWM Output LED Driver

■ DESIGN VERIFY TEST

Output Function Test

Input Function Test

Protection Function Test

Component Stress Test

■ SAFETY & E.M.C. TEST

Safety Test

E.M.C. Test

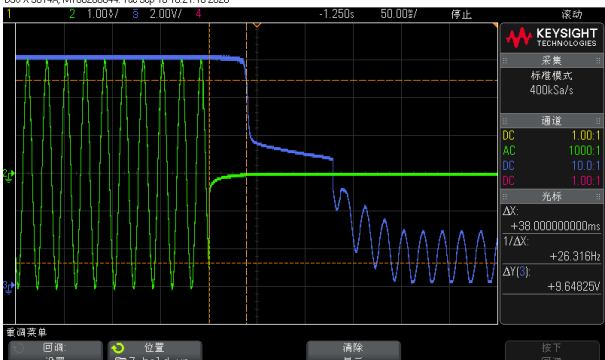
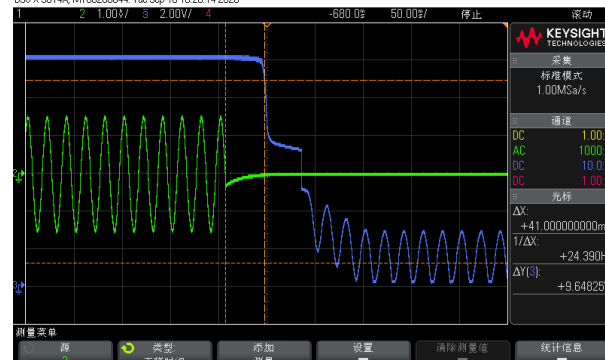
■ RELIABILITY TEST

ENVIRONMENT TEST

DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	DIMMING RANGE	0~100%	I/P: 230 VAC I/P:115VAC O/P:FULL LOAD Ta:25°C	0.04%~100% / 3.2KHz
2	VOLTAGE ADJ. RANGE	11V~14V	I/P: 230 VAC I/P:115VAC O/P:NO LOAD Ta:25°C	Test : 10.452V~14.844V/230V 10.452V~14.844V/115V
3	OVER/UNDERSHOOT TEST	< $\pm 5\%$	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	TEST:1.8%
4	SET UP TIME (Max)	230VAC/ 500 ms 115VAC/ 1200 ms	I/P: 230 VAC I/P: 115VAC O/P:FULL LOAD Ta:25°C	230VAC/ 242.14ms 115 VAC/ 169.4ms
INPUT=230VAC/50HZ @ FULL LOAD CH3 : Output Voltage CH2 : AC Input Voltage DSO-X 3014A, MY55280544, Tue Sep 16 15:56:52 2025 INPUT=115VAC/60HZ @ FULL LOAD CH3 : Output Voltage CH2 : AC Input Voltage DSO-X 3014A, MY55280544, Tue Sep 16 15:06:54 2025				
5	RISE TIME (Max)	230VAC/ 80ms 115VAC/ 80ms	I/P: 230 VAC I/P: 115VAC O/P:FULL LOAD Ta:25°C	230VAC/ 1.7 us 115 VAC/ 7.03ms
INPUT=230VAC/50HZ @ FULL LOAD CH3 : Output Voltage DSO-X 3014A, MY55280544, Tue Sep 16 15:12:11 2025 INPUT=115VAC/60HZ @ FULL LOAD CH3 : Output Voltage DSO-X 3014A, MY55280544, Tue Sep 16 15:09:49 2025				

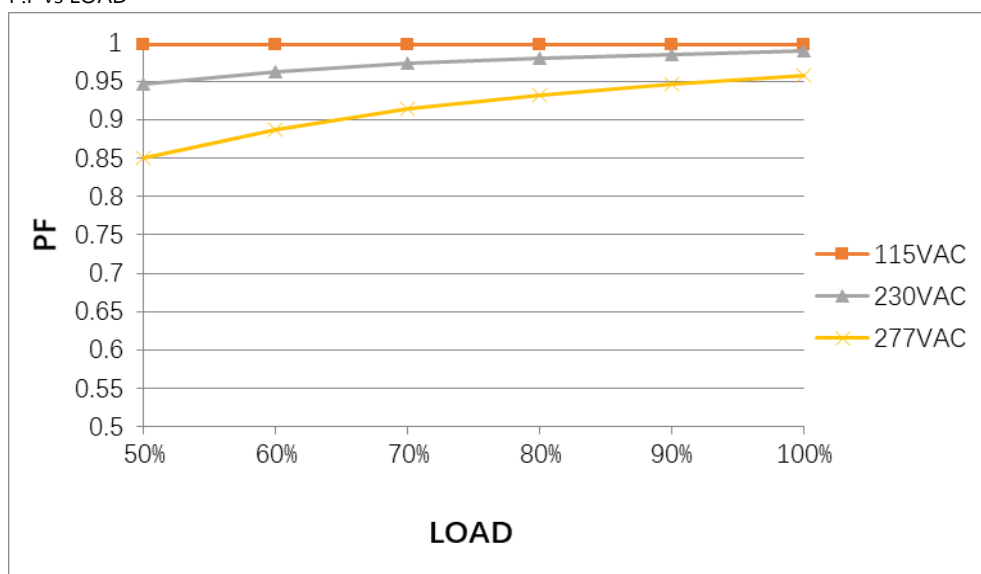
6	HOLD UP TIME (Typ.)	230VAC/ 10 ms 115VAC/ 10 ms	I/P: 230 VAC I/P: 115VAC O/P:FULL LOAD Ta:25°C	230VAC/38ms 115 VAC/41ms
INPUT=230VAC/50HZ @ FULL LOAD CH3 : Output Voltage CH2 : AC Input Voltage DSO-X 3014A, MY55280544, Tue Sep 16 15:21:18 2025  INPUT=115VAC/60HZ @ FULL LOAD CH3 : Output Voltage CH2 : AC Input Voltage DSO-X 3014A, MY55280544, Tue Sep 16 15:25:14 2025 				

INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	100VAC~305 VAC 156VDC~410VDC	(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 (4) I/P: LOW-LINE=156VDC HIGH-LINE=410VDC O/P: Dimming on/off Ta:25°C	(1) 97V~308V (2) 153Vdc~410Vdc/FULL LOAD 153Vdc~410Vdc/50% LOAD (3)153Vdc~410Vdc/FULL LOAD 153Vdc~410Vdc/50% LOAD (4)OK
			I/P: LOW-LINE-3V=97 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)	TEST:OK
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P: 100 VAC ~305VAC O/P:FULL~MIN LOAD Ta:25°C	OK
3	INPUT CURRENT (TYP)	277 VAC/ 0.38A 230 VAC/ 0.45A 115VAC/ 0.9A	I/P: 277VAC I/P: 230VAC I/P: 115VAC O/P:FULL LOAD Ta:25°C	I = 0.318A/ 277VAC I = 0.370A/ 230VAC I= 0.748A/115VAC

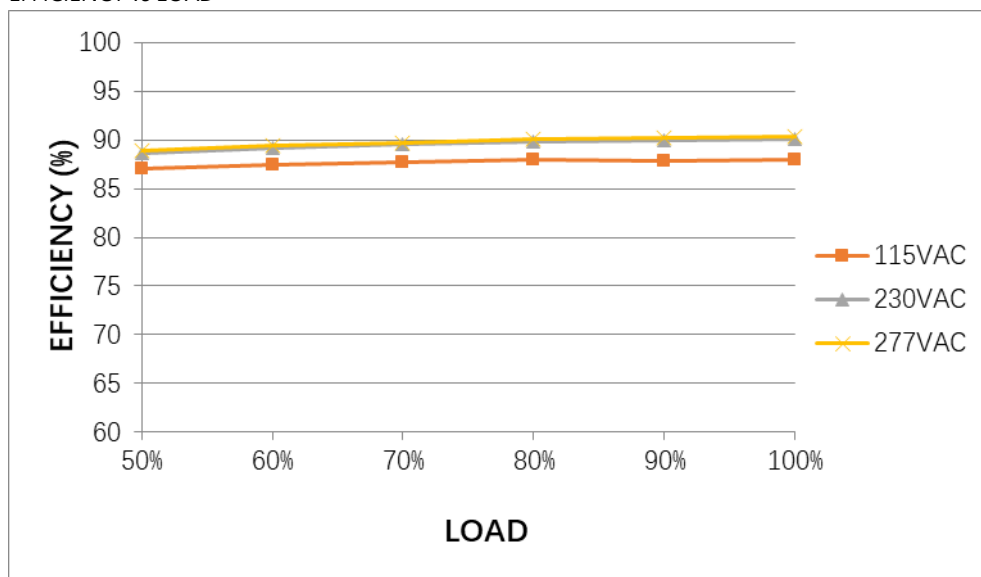
4	LEAKAGE CURRENT	< 0.25mA / 277 VAC	I/P : 277 VAC O/P : Min LOAD Ta : 25°C	L-FG:0.018mA N-FG:0.012mA
5	STANDBY POWER CONSUMPTION	<0.5W (Dimming off)	I/P: 230VAC O/P : DIM OFF Ta : 25°C	0.2802W
6	POWER FACTOR(TYP)	0.92/277 VAC 0.95/230 VAC 0.97/115 VAC	I/P: 277VAC I/P: 230VAC I/P: 115VAC O/P: FULL LOAD Ta:25°C	PF= 0.956/277VAC PF= 0.98/230VAC PF= 0.999/115VAC

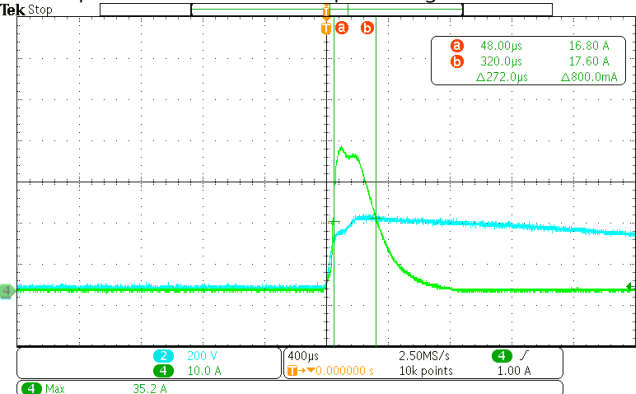
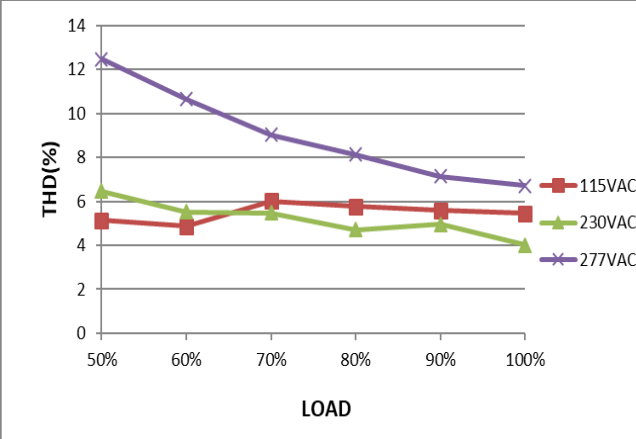
P.F vs LOAD



7	EFFICIENCY (TYP)	89 %	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	89.72 %
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EFFICIENCY vs LOAD

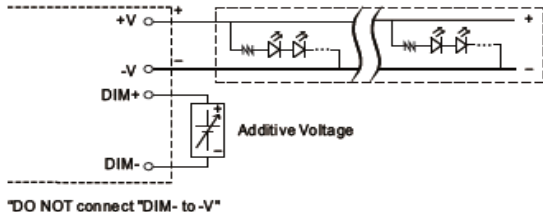
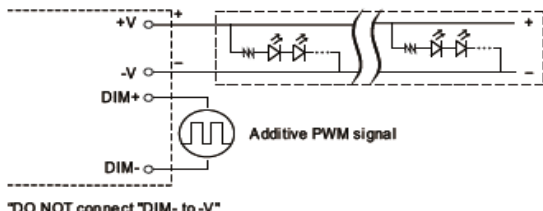
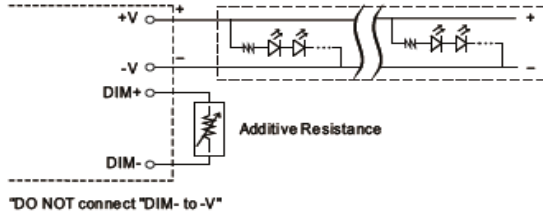
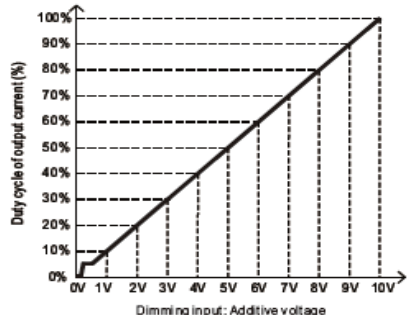
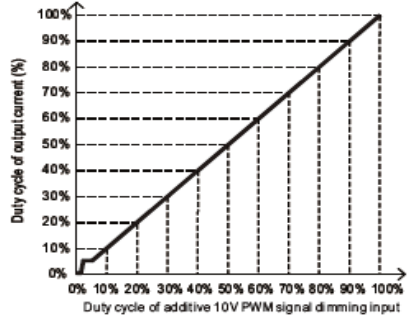
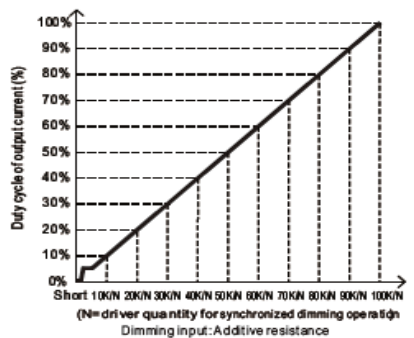


8	INRUSH CURRENT (TYP)	230 V/ 50 A COLD START (twidh=500us measured at 50% Ipeak) COLD START	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	I = 35.2 A/ 230VAC T50=272us
	INPUT=230VAC/50HZ @ FULL LOAD CH4 : Input current CH2 : AC Input Voltage 			
9	TOTAL HARMONIC DISTORTION	THD<10% @load≥50%/115VAC, 230VAC; @load≥75%/277VAC	I/P : 115VAC /230VAC/277VAC O/P : 75% LOAD 50% LOAD Ta : 25°C	THD : 5.14%/115VAC*50%load THD : 6.46%/230VAC*50%load THD : 8.45%/277VAC*75%load
	THD&LOAD 			

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER LOAD PROTECTION	105%~ 135%	I/P: 305VAC I/P: 230VAC I/P: 100VAC O/P: TESTING Ta: 25°C	119%/ 305VAC 119%/ 230VAC 119%/ 100VAC Protection type : Hiccup mode, recovers automatically after fault condition is removed.
2	OVER VOLTAGE PROTECTION	V1: 15V~20V	I/P: 305VAC I/P: 230VAC I/P: 100VAC O/P: MIN LOAD Ta: 25°C	16.3V/ 305VAC 16.0V/ 230VAC 16.1V/ 100VAC Protection type : Shut down O/P voltage, re-power on to recover after fault condition is removed
3	OVER TEMPERATURE PROTECTION	NO DAMAGE	I/P: 305 VAC I/P: 100 VAC O/P: FULL LOAD	O.T.P Active Protection type : Shut down O/P voltage, re-power on to recover after fault condition is removed
4	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 305VAC I/P: 100 VAC O/P: FULL LOAD Ta: 25°C	NO DAMAGE Protection type : 【For Blank type】 : Shut down O/P voltage, re-power on to recover after fault condition is removed. 【For DA2/DA2Q type】 : Hiccup mode, recovers automatically after fault condition is removed.

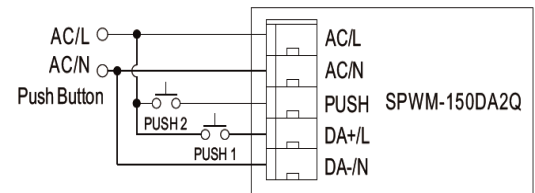
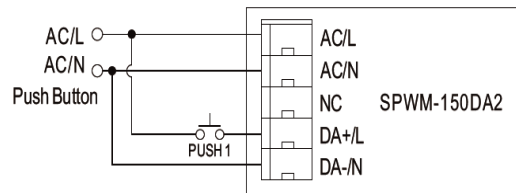
CONTROL FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT																																																																																																																								
1	DIMMING OPERATION (Blank Type)	※ 3 in 1 dimming function - Output constant current level 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: 100 μ A (typ.) ◎ Applying additive 0 ~ 10VDC  ◎ Applying additive 10V PWM signal (frequency range 300Hz~3KHz):  ◎ Applying additive resistance: 0~100k Ω     Note: 1. Min. dimming level is about 6% and the output current is not defined when 0% < I_{out} < 6%. 2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle. I/P: 230 VAC; O/P: DIMMING TEST; Ta: 25°C		<table><tr><td rowspan="3">1</td><td>Resistance value</td><td>Short</td><td>10K</td><td>20K</td><td>30K</td><td>40K</td><td>50K</td><td>60K</td><td>70K</td><td>80K</td><td>90K</td><td>100K</td><td>OPEN</td></tr><tr><td>Output Current</td><td>0</td><td>0.715 A</td><td>1.323 A</td><td>1.884 A</td><td>2.516 A</td><td>3.122 A</td><td>3.742 A</td><td>4.353 A</td><td>5.021 A</td><td>5.700 A</td><td>6.210A</td><td>6.210 A</td></tr><tr><td>Output Current duty</td><td>0%</td><td>11.35 %</td><td>21.00 %</td><td>29.90 %</td><td>39.94 %</td><td>49.56 %</td><td>59.40 %</td><td>69.10 %</td><td>79.70 %</td><td>90.48 %</td><td>98.57 %</td><td>98.57 %</td></tr><tr><td rowspan="3">2</td><td>Dimming value</td><td>0V</td><td>1V</td><td>2V</td><td>3V</td><td>4V</td><td>5V</td><td>6V</td><td>7V</td><td>8V</td><td>9V</td><td>10V</td><td>OPEN</td></tr><tr><td>Output Current</td><td>0</td><td>0.710 A</td><td>1.300 A</td><td>1.840 A</td><td>2.460 A</td><td>3.050 A</td><td>3.650 A</td><td>4.250 A</td><td>4.900 A</td><td>5.580 A</td><td>6.210A</td><td>6.210 A</td></tr><tr><td>Output Current duty</td><td>0%</td><td>11.27 %</td><td>20.63 %</td><td>29.21 %</td><td>39.05 %</td><td>48.41 %</td><td>57.94 %</td><td>67.46 %</td><td>77.78 %</td><td>88.57 %</td><td>98.57 %</td><td>98.57 %</td></tr><tr><td rowspan="3">3</td><td>Duty value</td><td>0%</td><td>10%</td><td>20%</td><td>30%</td><td>40%</td><td>50%</td><td>60%</td><td>70%</td><td>80%</td><td>90%</td><td>100%</td><td>OPEN</td></tr><tr><td>Output Current</td><td>0</td><td>0.710 A</td><td>1.287 A</td><td>1.845 A</td><td>2.457 A</td><td>3.049 A</td><td>3.719 A</td><td>4.316 A</td><td>4.990 A</td><td>5.647 A</td><td>6.170A</td><td>6.210 A</td></tr><tr><td>Output Current duty</td><td>0%</td><td>11.27 %</td><td>20.43 %</td><td>29.29 %</td><td>39.00 %</td><td>48.40 %</td><td>59.03 %</td><td>68.51 %</td><td>79.21 %</td><td>89.63 %</td><td>97.94 %</td><td>98.57 %</td></tr></table>	1	Resistance value	Short	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	OPEN	Output Current	0	0.715 A	1.323 A	1.884 A	2.516 A	3.122 A	3.742 A	4.353 A	5.021 A	5.700 A	6.210A	6.210 A	Output Current duty	0%	11.35 %	21.00 %	29.90 %	39.94 %	49.56 %	59.40 %	69.10 %	79.70 %	90.48 %	98.57 %	98.57 %	2	Dimming value	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN	Output Current	0	0.710 A	1.300 A	1.840 A	2.460 A	3.050 A	3.650 A	4.250 A	4.900 A	5.580 A	6.210A	6.210 A	Output Current duty	0%	11.27 %	20.63 %	29.21 %	39.05 %	48.41 %	57.94 %	67.46 %	77.78 %	88.57 %	98.57 %	98.57 %	3	Duty value	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN	Output Current	0	0.710 A	1.287 A	1.845 A	2.457 A	3.049 A	3.719 A	4.316 A	4.990 A	5.647 A	6.170A	6.210 A	Output Current duty	0%	11.27 %	20.43 %	29.29 %	39.00 %	48.40 %	59.03 %	68.51 %	79.21 %	89.63 %	97.94 %	98.57 %
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2 PUSH DIMMING OPERATION (DA2/DA2Q Type)

※PUSH dimming (primary side), for DA2/DA2Q Model

- Input wiring diagram



- The factory default dimming level is at 100%.
- Up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.
- The maximum length of the cable from the push button to the last driver is 20 meters.

Action	Action duration
Short Push	0.1~1s
Long Push	>1s

Push Button functionally

Model	Application	Dip Switch			Push 1 for brightness	Push 2 for colour
		1	2	3		
DA2 Type	1 logic unit of LED (DT6, Brightness Dimming)				Short Push : ON/OFF Long Push : Dim up/down. - dim up stop at maximum; dim down stop at minimum dim (not dim off) - with next push, direction change(up/down) - dim up possible even if when unit is OFF	This model does not feature this button.
DA2Q Type	1 logic unit of LED (DT6, Brightness Dimming)	ON	ON	ON	Short Push : ON/OFF Long Push : Dim up/down. - dim up stop at maximum; dim down stop at minimum dim (not dim off) - with next push, direction change(up/down) - dim up possible even if when unit is OFF	Short Push : no response Long Push : no response
	4 logic unit of LED (DT6, Brightness Dimming)	ON	ON	OFF	4 control gears are synchronously controlled Short Push : ON/OFF Long Push : Dim up/down. - dim up stop at maximum; dim down stop at minimum dim (not dim off) - with next push, direction change(up/down) - dim up possible even if when unit is OFF	Short Push : no response Long Push : no response
	1 logic unit of colourtype RGBW (DT8, RGBW colour control) (factory default)	OFF	OFF	OFF	Short Push : ON/OFF Long Push : Dim up/down. - dim up stop at maximum; dim down stop at minimum dim (not dim off) - with next push, direction change(up/down) - dim up possible even if when unit is OFF	Short Push : Switch to "W channel control" or "RGB color control". Long Push : Dimming "W channel control" or "RGB color control". -W channel control: Long press to dim up stop at maximum. Long press to dim down stop at minimum(0). -RGB color control: Long press to change RGB color.
	1 logic unit of colour type Tc (DT8, Tunable white control)	ON	OFF	OFF	Short Push : ON/OFF Long Push : Dim up/down - dim up stop at maximum; dim down stop at minimum dim (not dim off) - with next push, direction change(up/down) - dim up possible even if when unit is OFF	Short Push : ON/OFF Long Push : Dim2Warm - The color temperature warms up while the brightness dims, and the color temperature cools down while the brightness brightens. - dim up stop at maximum; dim down stop at minimum dim (not dim off) - with next push, direction change (up, cooler/down, warmer) - dim up possible even if when unit is OFF

Model		Dip Switch			PUSH 1 for brightness	PUSH 2 for colour
		1	2	3		
DA2Q Type	2 logic units of colour type Tc (DT8. Tunable white control)	OFF	ON	OFF	2 control gears are synchronously controlled Short Push : ON/OFF Long Push : Dim up/down - dim up stop at maximum; dim down stop at minimum dim (not dim off) - with next push, direction change(up/down) - dim up possible even if when unit is OFF	2 control gears are synchronously controlled Short Push : ON/OFF Long Push : Dim2Warm - The color temperature warms up while the brightness dims, and the color temperature cools down while the brightness brightens. - dim up stop at maximum; dim down stop at minimum dim (not dim off) - with next push, direction change (up,cooler/down,warm) - dim up possible even if when unit is OFF
	2 logic units (1 logic unit of DT6) (1 logic unit of colour type Tc)	OFF	OFF	ON	Only the DT6 device responds Short Push : ON/OFF Long Push : Dim up/down - dim up stop at maximum; dim down stop at minimum dim (not dim off) - with next push, direction change(up/down) - dim up possible even if when unit is OFF	Only the DT8 device responds Short Push : ON/OFF Long Push : Dim2Warm - The color temperature warms up while the brightness dims, and the color temperature cools down while the brightness brightens. - dim up stop at maximum; dim down stop at minimum dim (not dim off) - with next push, direction change (up,cooler/down,warm) - dim up possible even if when unit is OFF
I/P: 230 VAC O/P: DIMMING TEST Ta: 25°C TEST RESULT: OK						

COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Transistor (D to S) or (C to E) Peak Voltage	Q2 Rated 7A/800V	AC ON/OFF I/P:High-Line +3V =308V O/P: (1)Full Load input (2)Output Short (3)Dimming off (4)OLP (5) No Load VR max VDS: I/P:Low-Line -3V = 97V O/P: (1)Full Load input (2)Output Short (3)Dimming off (4)OLP (5) No Load VR max Ta:25°C	VDS: (1) 682V (2) 569V (3) 690V (4) 706V (5) 553V VDS: (1) 674V (2) 577V (3) 682V (4) 698V (5) 569V

2	P.F.C Transistor (D to S) or (C to E) Peak Voltage	Q1 Rated 12AV650V	AC ON/OFF I/P:High-Line +3V =308 V O/P: (1)Full Load input (2)Output Short (3)Dimming off (4)OLP (5) No Load I/P:Low-Line -3V = 97V O/P: (1)Full Load input (2)Output Short (3)Dimming off (4)OLP (5) No Load Ta:25°C	VDS: (1) 502V (2) 482V (3) 482V (4) 445V (5) 470V VDS: (1) 550V (2) 449V (3) 538V (4) 544V (5) 445V
3	P.F.C DIODE	D5 Rated 8A/600V	AC ON/OFF I/P:High-Line +3V =308 V O/P: (1)Full Load input (2)Output Short (3)Dimming off (4)OLP (5) No Load I/P: Low-Line -3V = 97V O/P: (1)Full Load input (2)Output Short (3)Dimming off (4)OLP (5) No Load Ta:25°C	(1) 458V (2) 454V (3) 454V (4) 454V (5) 454V (1) 458V (2) 454V (3) 454V (4) 454V (5) 454V
4	Diode Peak Voltage	Q100 Rated 105A/80V	AC ON/OFF I/P: High-Line +3V =308 V O/P: (1)Full Load (2)Output Short (3) Dimming off (4) OLP (5).NO LOAD Ta:25°C	VDS: (1) 71.2V (2) 64.7V (3) 63.9V (4) 65.5V (5) 63.9V (1) 63.1V
5	Input Capacitor Voltage	C5 Rated: 33μ/450V Surge voltage: 560 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) 506V (2) 454V (3) 454V (4) 446V

6	Control IC Voltage Test	PWM IC U2Rated 9V~28V PFC IC U1 Rated -0.3 V~ 27V MCU IC U602 Rated 1.7 V~ 3.6 V	AC ON/OFF I/P:High-Line +3V =308 V O/P:(1) Full Load (2) Output Short (3) O.L.P (4) O.V.P. (5) No Load VR min (Low Line) (6) DIM OFF Ta:25°C	U2 (1) 16.8V (2) 13.2V (3) 14.2V (4) 17.2V (5) 17.2 V (6) 13.6 V U1 (1) 17.4V (2) 14.1V (3) 13.7V (4) 17.6V (5) 17.5 V (6) 13.6V U602 (1) 3.31V (2) 3.30V (3) 3.31V (4) 3.30V (5) 3.31V (6) 3.30V
7	DIMMING MOS (DA2Q type)	Q110/ Q113 40V/70A	AC ON/OFF I/P : High-Line +3V = 308 V O/P : (1) Full Load (2) Output Short (3) Dim on/off Ta : 25°C	Q110 (1) 14.1V (2) 14.3V (3) 14.3V Q113 (1) 14.5V (2) 14.5V (3) 14.3V

SAFETY & EMC TEST REPORT

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P: 3.75 K VAC/min	I/P-O/P: 4.125 KVAC/min Ta:25°C	I/P-O/P: 1.772 mA NO DAMAGE
2	ISOLATION RESISTANCE	I/P-O/P: 500 VDC>100MΩ	I/P-O/P: 500 VDC Ta:25°C	I/P-O/P: >9999 MΩ NO DAMAGE

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	HARMONIC	EN61000-3-2 CLASS C	I/P: 230 VAC/50HZ O/P:FULL LOAD Ta:25°C	PASS
2	CONDUCTION	EN55015 CLASS B	I/P: 230 VAC /50HZ O/P:FULL/50% LOAD Ta:25°C	PASS Test by certified Lab
3	RADIATION	EN55015 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 AIR : 8KV / Contact : 4KV	I/P: 230 VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A/ Blank type CRITERIA B/ DA2&DA2Q type
5	E.F.T	EN61000-4-4 INPUT: 1KV	I/P: 230 VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A
6	SURGE	IEC61000-4-5 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 : SPWM-75-12 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=32.5 °C 2. HIGH AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=53.3 °C <table><tr><th>NO</th><th>Position</th><th>ROOM AMBIENT Ta=32.5°C</th><th>HIGH AMBIENT Ta=53.3 °C</th></tr><tr><td>1</td><td>BD1</td><td>67.6°C</td><td>86.4°C</td></tr><tr><td>2</td><td>C1</td><td>55.6°C</td><td>74.9°C</td></tr><tr><td>3</td><td>R7</td><td>80.2°C</td><td>104.7°C</td></tr><tr><td>4</td><td>Q1</td><td>89.5°C</td><td>108.1°C</td></tr><tr><td>5</td><td>L2</td><td>76.6°C</td><td>96.3°C</td></tr><tr><td>6</td><td>D5</td><td>85.2°C</td><td>104.1°C</td></tr><tr><td>7</td><td>C5</td><td>72.2°C</td><td>92.0°C</td></tr><tr><td>8</td><td>Q2</td><td>95.5°C</td><td>114.5°C</td></tr><tr><td>9</td><td>C62</td><td>86.4°C</td><td>105.4°C</td></tr><tr><td>10</td><td>U2</td><td>84.6°C</td><td>102.7°C</td></tr><tr><td>11</td><td>T1</td><td>95.3°C</td><td>114.5°C</td></tr><tr><td>12</td><td>Q100</td><td>87.7°C</td><td>107.5°C</td></tr><tr><td>13</td><td>C104</td><td>88.4°C</td><td>108.5°C</td></tr><tr><td>14</td><td>Q110</td><td>78.4°C</td><td>100.2°C</td></tr><tr><td>15</td><td>RTH2</td><td>80.0°C</td><td>98.6°C</td></tr><tr><td>16</td><td>TC</td><td>66.7°C</td><td>88.7°C</td></tr></table>			NO	Position	ROOM AMBIENT Ta=32.5°C	HIGH AMBIENT Ta=53.3 °C	1	BD1	67.6°C	86.4°C	2	C1	55.6°C	74.9°C	3	R7	80.2°C	104.7°C	4	Q1	89.5°C	108.1°C	5	L2	76.6°C	96.3°C	6	D5	85.2°C	104.1°C	7	C5	72.2°C	92.0°C	8	Q2	95.5°C	114.5°C	9	C62	86.4°C	105.4°C	10	U2	84.6°C	102.7°C	11	T1	95.3°C	114.5°C	12	Q100	87.7°C	107.5°C	13	C104	88.4°C	108.5°C	14	Q110	78.4°C	100.2°C	15	RTH2	80.0°C	98.6°C	16	TC	66.7°C	88.7°C
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2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)	I/P : 230 VAC O/P : 119 %LOAD Ta : 25°C	TEST : OK																																																																				
3	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 305VAC/100VAC O/P : 100/90 %LOAD Ta= -25 °C	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 : 315 VAC O/P : FULL LOAD Ta=50°C HUMIDITY=95 %R.H	TEST : OK																																																																				
5	TEMPERATURE COEFFICIENT	±0.03 %(0~50°C)	I/P : 230 VAC O/P : FULL LOAD	±0.02 %(0~50°C)																																																																				
6	STORAGE TEMPERATURE TEST	-40~+80°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 TEST: OK																																																																					

7	THERMAL SHOCK TEST	-20~+50°C	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 : 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	5 ~ 100Hz, 2G 12min./1cycle, 72min. each along X, Y, Z axes	1 Carton & 1 Set (1) Waveform : Sine Wave (2) Frequency : 5~100Hz (3) Sweep Time : 12min/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=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) 320649HRS (2) 19771HRS (3) 104961HRS (4) 502377HRS
10	MTBF	Conducted by Parts Stress Analysis Prediction 2396.9K hrs min. Telcordia SR-332 (Bellcore) ; 205.7K 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	WUWQIN/ZHOUBIAO	WENF	WUWQ

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