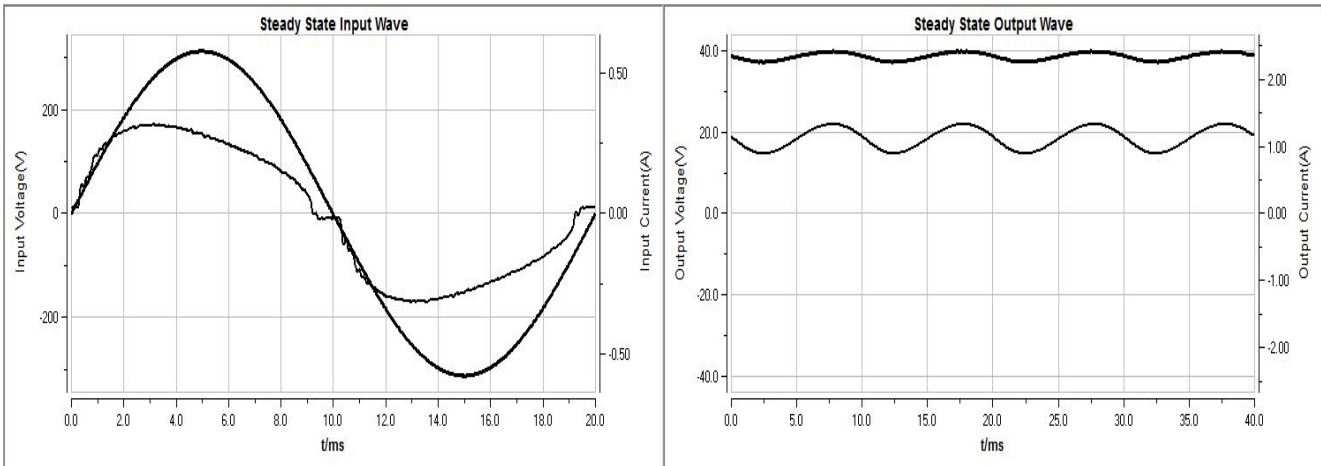


Synthesized Test Report

Steady State Vol Range(%): Load Adjustment(%):
Voltage Adjustment(%):0.0 Power Factor:
Full Load Efficiency(%): Input Impact Cur(A):-0.029
Vol Ripple(V):0.0 Cur Ripple(A):0.007
Start-up Time(s): --- Overshoot Margin Vol of Start(%):



Steady State Test Condition: Input Vol:220.0V Mid Load Cur

LED Drive Power Type: Con Voltage

Rank According to <<Lighting LED Drive Power Standard>>: ---

Qualify According to Custom Define: ---

Model:LED driver PANEL_48W
Manufactory:ELMARK
Date:2015-03-27
Humidity(%):65
Test Device: EVERFINE LT-101A

Number:LED driver_92PALEL014
Tester:Petya Marinova
TMP(deg.):20
Remarks:

Steady State Test Data

Steady State Test Data

1. Condition: Input Vol:190.0V Mid Load Cur
Input: U:190.3V I:0.261A P:48.55W PF:0.978 F:50.01Hz η : 89.5% Output: U= 38.7V I=1.130A P=43.43W
2. Condition: Input Vol:220.0V Mid Load Cur
Input: U:220.2V I:0.229A P:48.61W PF:0.964 F:50.01Hz η : 89.5% Output: U= 38.7V I=1.132A P=43.52W
3. Condition: Input Vol:240.0V Mid Load Cur
Input: U:240.2V I:0.213A P:48.78W PF:0.954 F:50.00Hz η : 89.5% Output: U= 38.7V I=1.135A P=43.65W

Adjustment Test Data

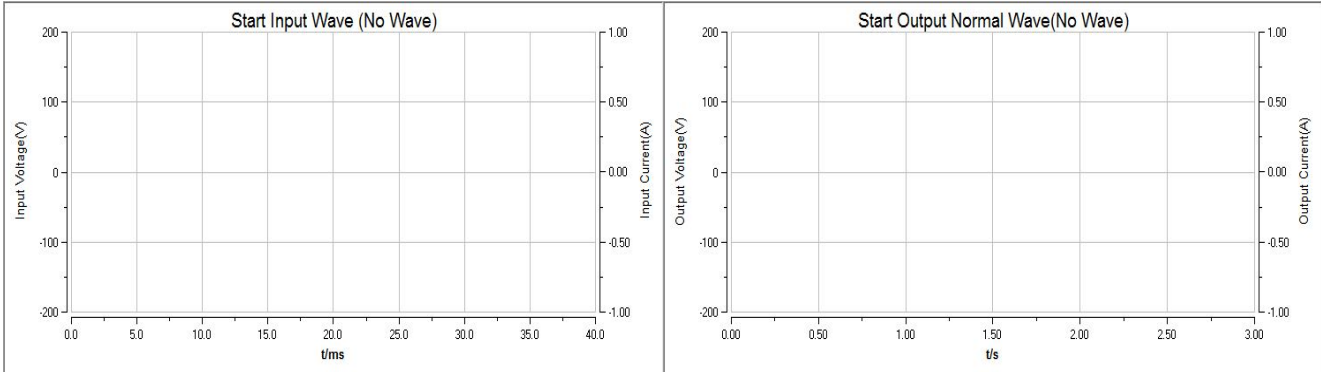
1. Condition: Input Vol:220.0V Mid Load Cur
Input: U:220.2V I:0.228A P:48.38W PF:0.964 F:50.01Hz η : 89.6% Output: U= 38.6V I=1.130A P=43.33W
2. Condition: Input Vol:190.0V Mid Load Cur
Input: U:190.3V I:0.259A P:48.17W PF:0.977 F:50.01Hz η : 89.6% Output: U= 38.6V I=1.126A P=43.17W
3. Condition: Input Vol:220.0V Mid Load Cur
Input: U:220.2V I:0.228A P:48.38W PF:0.964 F:50.00Hz η : 89.5% Output: U= 38.6V I=1.129A P=43.30W
4. Condition: Input Vol:240.0V Mid Load Cur
Input: U:240.2V I:0.212A P:48.54W PF:0.953 F:50.01Hz η : 89.5% Output: U= 38.6V I=1.133A P=43.46W

Model:LED driver PANEL_48W
Manufactory:ELMARK
Date:2015-03-27
Humidity(%):65
Test Device: EVERFINE LT-101A

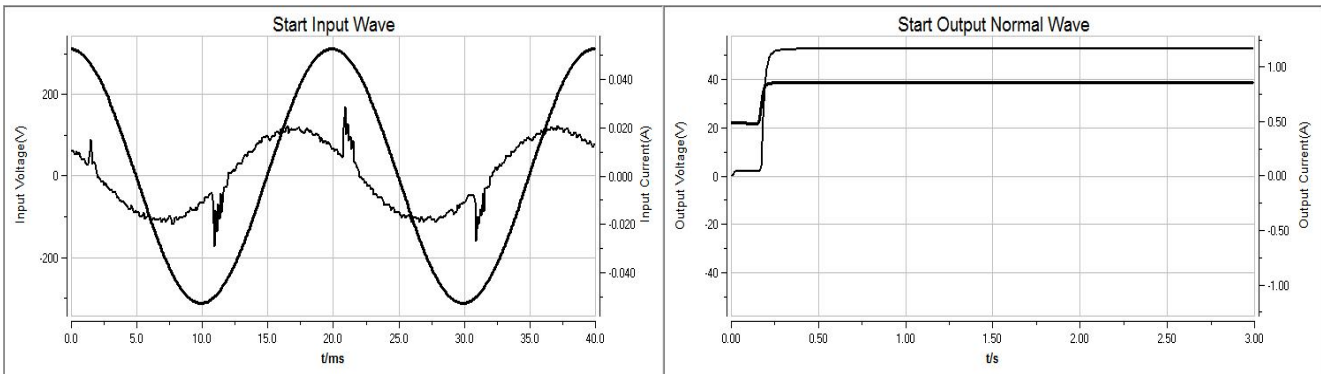
Number:LED driver_92PALEL014
Tester:Petya Marinova
TMP(deg.):20
Remarks:

Start-up Input/Output Wave

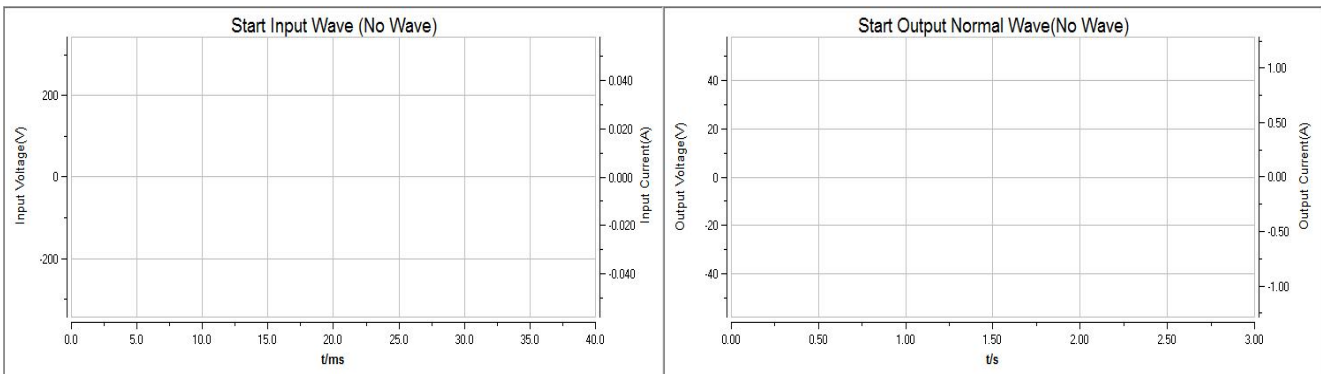
1. Input Vol:220.0V Min Load Cur



2. Input Vol:220.0V Mid Load Cur



3. Input Volt:220.0V Max Load Cur



Model:LED driver PANEL_48W
Manufactory:ELMARK
Date:2015-03-27
Humidity(%):65
Test Device: EVERFINE LT-101A

Number:LED driver_92PALEL014
Tester:Petya Marinova
TMP(deg.):20
Remarks:

Start-up Test Data

1. Condition: Input Vol: 220.0V Mid Load Cur

Input Parameters: Impact Cur: -0.029A

Peak Vol: 311.8V

Output Parameters: Start-up Time: 0.17s

Peak Vol: 38.6V

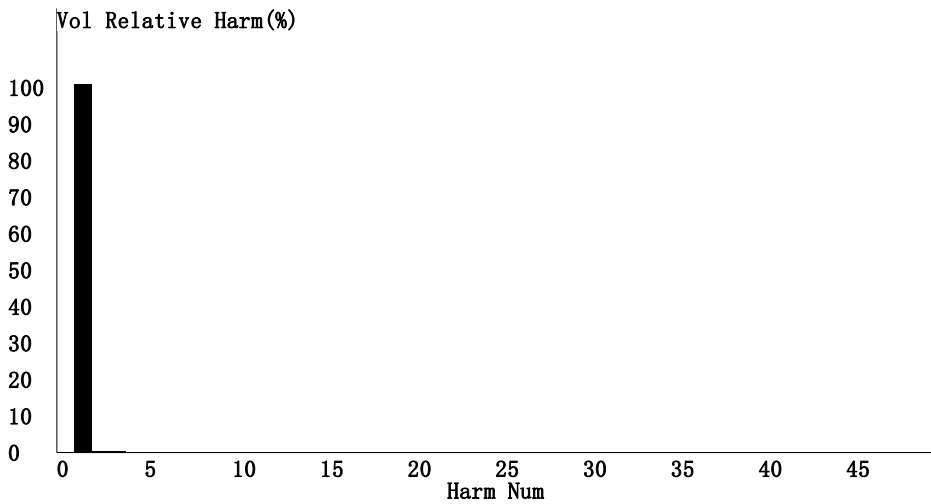
Peak Cur: 1.168A

Model:LED driver PANEL_48W
Manufactory:ELMARK
Date:2015-03-27
Humidity(%):65
Test Device: EVERFINE LT-101A

Number:LED driver_92PALEL014
Tester:Petya Marinova
TMP(deg.):20
Remarks:

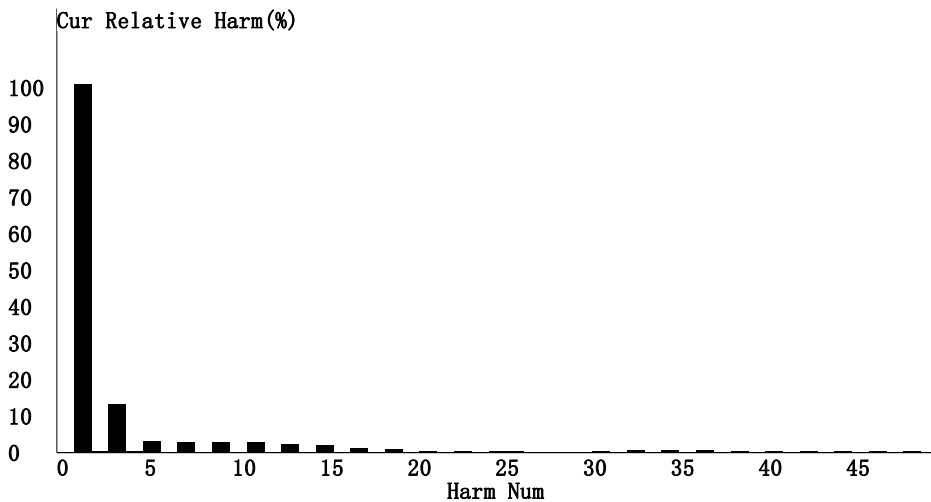
Steady State Input Harm Wave

Steady State Input Vol Harm Wave



Input Vol Harm IEC:0.4%
 Input Vol Harm CSA:0.4%
 1degree Relative Harm:100.0%

Steady State Input Cur Harm Wave



Input Cur Harm IEC:14.5%
 Input Cur Harm CSA:14.4%
 1degree Relative Harm:100.0%
 3degree Relative Harm:12.9%
 5degree Relative Harm:3.0%
 7degree Relative Harm:2.7%
 9degree Relative Harm:2.9%
 11degree Relative Harm:2.7%
 13degree Relative Harm:2.2%
 15degree Relative Harm:1.7%
 17degree Relative Harm:1.2%
 . . .

Steady State Input Vol and Cur Harm Test Condition:
 Input Vol:220.0V Mid Load Cur

Model:LED driver PANEL_48W
 Manufactory:ELMARK
 Date:2015-03-27
 Humidity(%):65
 Test Device: EVERFINE LT-101A

Number:LED driver_92PALEL014
 Tester:Petya Marinova
 TMP(deg.):20
 Remarks:

Steady State Input Harm Data

Harm Num	Vol Harm(V)	Vol Relative Harm(%)	Cur Harm(A)	Cur Relative Harm(%)	Cur Harm per (mA/W)
1	220.3	100.0	0.227	100.0	4.660
2	0.4	0.2	0.000	0.2	0.010
3	0.5	0.2	0.029	12.9	0.600
4	0.3	0.1	0.000	0.2	0.009
5	0.2	0.1	0.007	3.0	0.138
6	0.2	0.1	0.000	0.2	0.008
7	0.1	0.0	0.006	2.7	0.126
8	0.1	0.0	0.000	0.1	0.004
9	0.0	0.0	0.007	2.9	0.136
10	0.0	0.0	0.000	0.0	0.002
11	0.0	0.0	0.006	2.7	0.126
12	0.0	0.0	0.000	0.0	0.002
13	0.0	0.0	0.005	2.2	0.104
14	0.0	0.0	0.000	0.1	0.003
15	0.0	0.0	0.004	1.7	0.081
16	0.0	0.0	0.000	0.1	0.004
17	0.0	0.0	0.003	1.2	0.056
18	0.0	0.0	0.000	0.1	0.005
19	0.0	0.0	0.002	0.8	0.037
20	0.0	0.0	0.000	0.1	0.004
21	0.0	0.0	0.001	0.5	0.024
22	0.0	0.0	0.000	0.1	0.004
23	0.0	0.0	0.001	0.4	0.017
24	0.1	0.0	0.000	0.1	0.007
25	0.0	0.0	0.000	0.2	0.008
26	0.1	0.0	0.000	0.2	0.008
27	0.0	0.0	0.000	0.1	0.003
28	0.0	0.0	0.000	0.1	0.003
29	0.0	0.0	0.000	0.2	0.007
30	0.0	0.0	0.000	0.1	0.004
31	0.0	0.0	0.001	0.4	0.019
32	0.0	0.0	0.000	0.1	0.004
33	0.0	0.0	0.001	0.6	0.026
34	0.0	0.0	0.000	0.1	0.003
35	0.0	0.0	0.001	0.6	0.028
36	0.0	0.0	0.000	0.0	0.001
37	0.0	0.0	0.001	0.6	0.026
38	0.0	0.0	0.000	0.0	0.002
39	0.0	0.0	0.001	0.5	0.023
40	0.0	0.0	0.000	0.1	0.002
41	0.0	0.0	0.001	0.4	0.017
42	0.0	0.0	0.000	0.0	0.001
43	0.0	0.0	0.001	0.3	0.014
44	0.0	0.0	0.000	0.0	0.001
45	0.0	0.0	0.001	0.4	0.017
46	0.0	0.0	0.000	0.0	0.001
47	0.0	0.0	0.001	0.4	0.017
48	0.0	0.0	0.000	0.0	0.002
49	0.0	0.0	0.001	0.5	0.023
50	0.0	0.0	0.000	0.1	0.003

Model:LED driver PANEL_48W
 Manufactory:ELMARK
 Date:2015-03-27
 Humidity(%) :65
 Test Device: EVERFINE LT-101A

Number:LED driver_92PALEL014
 Tester:Petya Marinova
 TMP(deg.) :20
 Remarks: