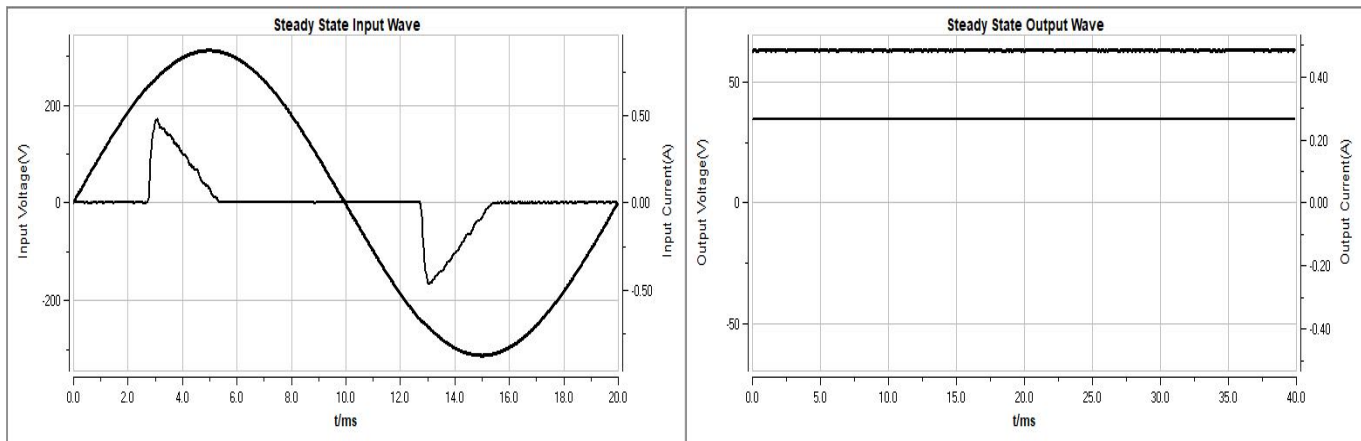


Synthesized Test Report

Steady State Vol Range(%) :	Load Adjustment(%) :
Voltage Adjustment(%) :0.0	Power Factor:
Full Load Efficiency(%) :	Input Impact Cur(A) :0.334
Vol Ripple(V) :0.0	Cur Ripple(A) :0.056
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 16W
 Manufactory:ELMARK
 Date:2017-11-16
 Humidity(%) :65
 Test Device: EVERFINE LT-101A

Number:LED driver 16W_SHINE16 LED
 Tester:Petya Marinova
 TMP(deg.) :20
 Remarks:O17V037B_4080

Steady State Test Data

Steady State Test Data

1. Condition: Input Vol:190.0V Mid Load Cur
Input: U:190.3V I:0.164A P:18.77W PF:0.601 F:50.01Hz η : 91.4% Output: U= 64.0V I=0.268A P=17.15W
2. Condition: Input Vol:220.0V Mid Load Cur
Input: U:220.2V I:0.147A P:18.40W PF:0.569 F:50.01Hz η : 91.1% Output: U= 63.3V I=0.265A P=16.77W
3. Condition: Input Vol:240.0V Mid Load Cur
Input: U:240.2V I:0.139A P:18.42W PF:0.552 F:50.00Hz η : 91.0% Output: U= 63.3V I=0.265A P=16.77W

Adjustment Test Data

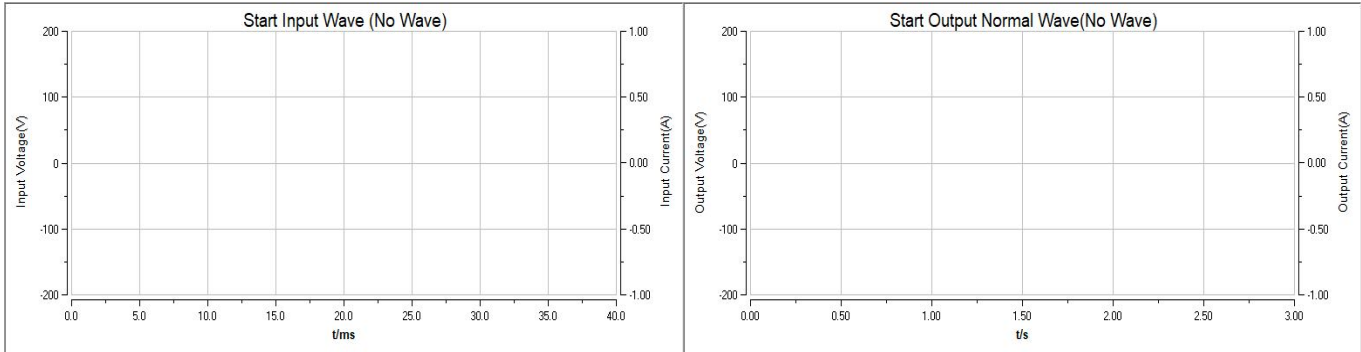
1. Condition: Input Vol:220.0V Mid Load Cur
Input: U:220.2V I:0.146A P:18.25W PF:0.568 F:50.01Hz η : 91.9% Output: U= 63.3V I=0.265A P=16.77W
2. Condition: Input Vol:190.0V Mid Load Cur
Input: U:190.3V I:0.162A P:18.27W PF:0.593 F:50.01Hz η : 91.8% Output: U= 63.3V I=0.265A P=16.77W
3. Condition: Input Vol:220.0V Mid Load Cur
Input: U:220.2V I:0.146A P:18.24W PF:0.567 F:50.01Hz η : 91.9% Output: U= 63.3V I=0.265A P=16.77W
4. Condition: Input Vol:240.0V Mid Load Cur
Input: U:240.2V I:0.138A P:18.27W PF:0.551 F:50.01Hz η : 91.8% Output: U= 63.3V I=0.265A P=16.77W

Model:LED driver 16W
Manufactory:ELMARK
Date:2017-11-16
Humidity(%):65
Test Device: EVERFINE LT-101A

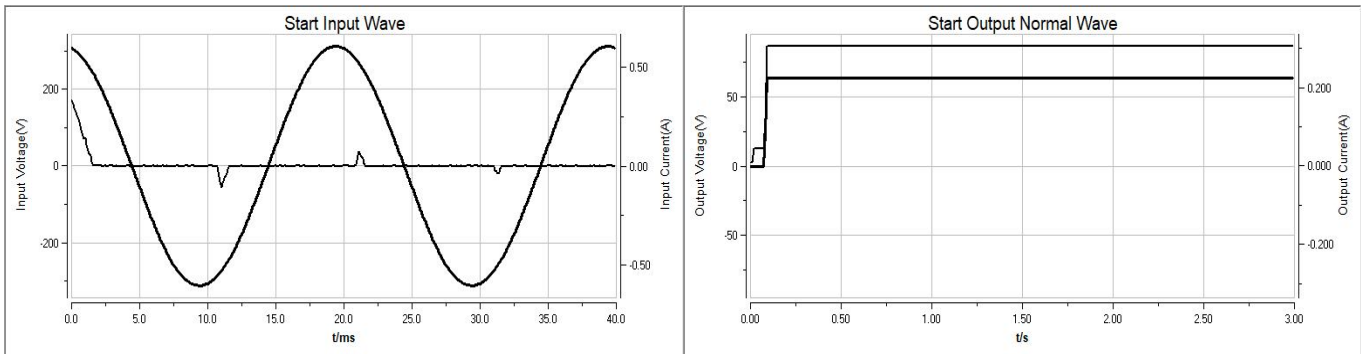
Number:LED driver 16W_SHINE16 LED
Tester:Petya Marinova
TMP(deg.):20
Remarks:017V037B_4080

Start-up Input/Output Wave

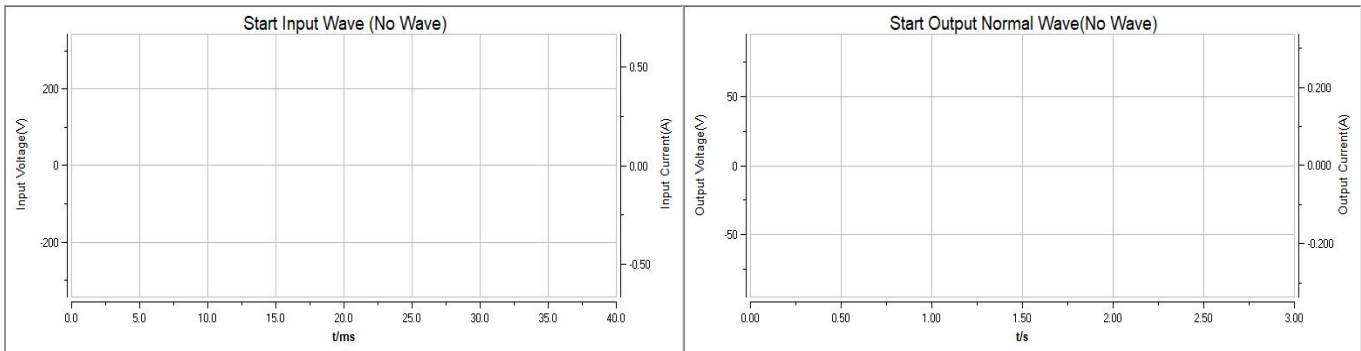
1. Input Vol:220.0V Min Load Cur



2. Input Vol:220.0V Mid Load Cur



3. Input Volt:220.0V Max Load Cur



Model:LED driver 16W
Manufactory:ELMARK
Date:2017-11-16
Humidity(%):65
Test Device: EVERFINE LT-101A

Number:LED driver 16W_SHINE16 LED
Tester:Petya Marinova
TMP(deg.):20
Remarks:O17V037B_4080

Start-up Test Data

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

Input Parameters: Impact Cur: 0.334A

Peak Vol: 312.0V

Output Parameters: Start-up Time: 0.09s

Peak Vol: 63.3V

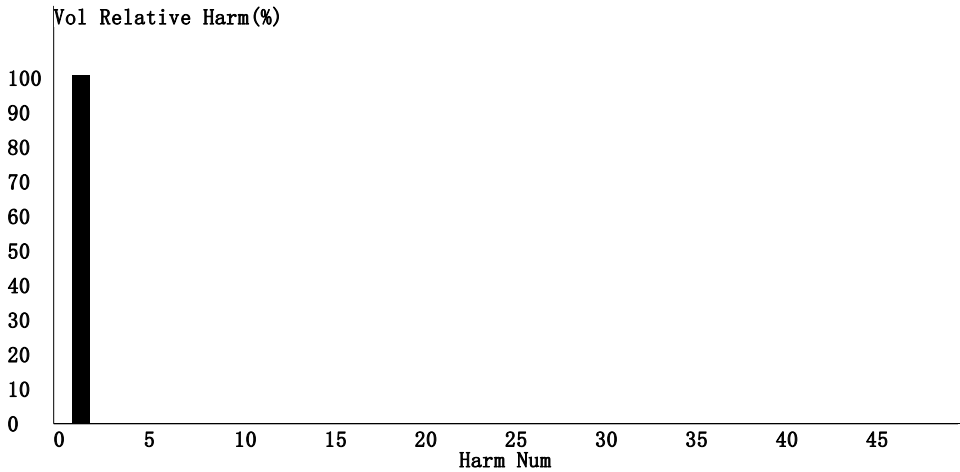
Peak Cur: 0.306A

Model:LED driver 16W
Manufactory:ELMARK
Date:2017-11-16
Humidity(%):65
Test Device: EVERFINE LT-101A

Number:LED driver 16W_SHINE16 LED
Tester:Petya Marinova
TMP(deg.):20
Remarks:O17V037B_4080

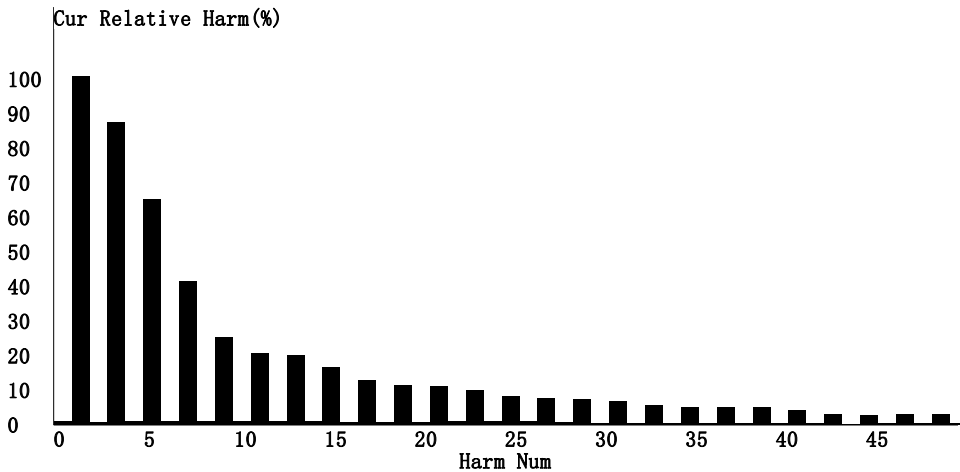
Steady State Input Harm Wave

Steady State Input Vol Harm Wave



Input Vol Harm IEC:0.3%
 Input Vol Harm CSA:0.3%
 1degree Relative Harm:100.0%

Steady State Input Cur Harm Wave



Input Cur Harm IEC:126.6%
 Input Cur Harm CSA:78.5%
 1degree Relative Harm:100.0%
 3degree Relative Harm:86.8%
 5degree Relative Harm:64.9%
 7degree Relative Harm:41.3%
 9degree Relative Harm:24.8%
 11degree Relative Harm:20.4%
 13degree Relative Harm:19.7%
 15degree Relative Harm:16.5%
 17degree Relative Harm:12.7%

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

Model:LED driver 16W
 Manufactory:ELMARK
 Date:2017-11-16
 Humidity(%):65
 Test Device: EVERFINE LT-101A

Number:LED driver 16W_SHINE16 LED
 Tester:Petya Marinova
 TMP(deg.):20
 Remarks:O17V037B_4080

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	220.2	100.0	0.091	100.0	4.926
2	0.4	0.2	0.001	0.7	0.035
3	0.2	0.1	0.079	86.8	4.277
4	0.2	0.1	0.001	0.8	0.042
5	0.3	0.1	0.059	64.9	3.195
6	0.2	0.1	0.001	0.8	0.041
7	0.3	0.1	0.037	41.3	2.033
8	0.1	0.0	0.001	0.8	0.038
9	0.2	0.1	0.023	24.8	1.224
10	0.0	0.0	0.001	0.8	0.039
11	0.1	0.0	0.019	20.4	1.007
12	0.0	0.0	0.001	0.9	0.043
13	0.1	0.0	0.018	19.7	0.971
14	0.0	0.0	0.001	0.9	0.042
15	0.1	0.0	0.015	16.5	0.814
16	0.0	0.0	0.001	0.7	0.034
17	0.1	0.0	0.012	12.7	0.627
18	0.0	0.0	0.001	0.6	0.027
19	0.1	0.0	0.010	11.3	0.557
20	0.0	0.0	0.001	0.6	0.031
21	0.0	0.0	0.010	11.0	0.542
22	0.0	0.0	0.001	0.8	0.040
23	0.0	0.0	0.009	9.8	0.482
24	0.1	0.0	0.001	0.9	0.043
25	0.0	0.0	0.007	8.2	0.403
26	0.1	0.0	0.001	0.8	0.039
27	0.1	0.0	0.007	7.5	0.368
28	0.0	0.0	0.001	0.6	0.030
29	0.0	0.0	0.007	7.2	0.357
30	0.0	0.0	0.000	0.4	0.022
31	0.0	0.0	0.006	6.5	0.319
32	0.0	0.0	0.000	0.4	0.019
33	0.0	0.0	0.005	5.5	0.269
34	0.0	0.0	0.000	0.4	0.020
35	0.0	0.0	0.005	5.1	0.250
36	0.0	0.0	0.000	0.5	0.024
37	0.0	0.0	0.005	5.1	0.253
38	0.0	0.0	0.000	0.5	0.026
39	0.0	0.0	0.004	4.8	0.237
40	0.0	0.0	0.000	0.5	0.024
41	0.0	0.0	0.004	3.9	0.194
42	0.0	0.0	0.000	0.3	0.017
43	0.0	0.0	0.003	3.0	0.146
44	0.0	0.0	0.000	0.2	0.009
45	0.0	0.0	0.002	2.6	0.130
46	0.0	0.0	0.000	0.3	0.014
47	0.0	0.0	0.003	2.9	0.143
48	0.0	0.0	0.000	0.4	0.022
49	0.0	0.0	0.003	3.1	0.151
50	0.0	0.0	0.000	0.5	0.023

Model:LED driver 16W
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