



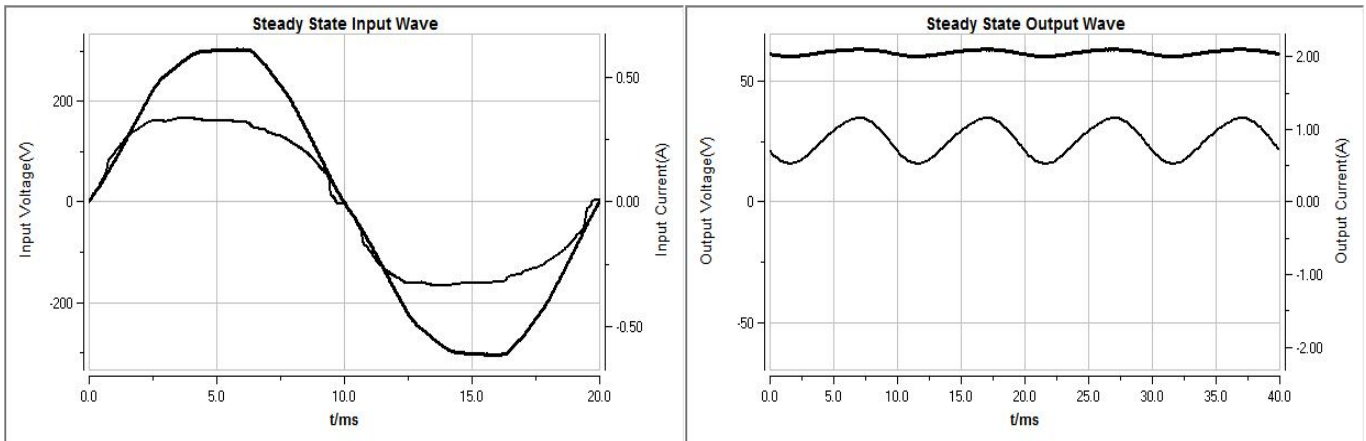
- ویژگی ها:
- ولتاژ ورودی بین ۱۷۰ تا ۲۷۰ ولت متناوب
- دارای محافظت در برابر: اتصال کوتاه در خروجی، جریان بیش از حد مجاز، ولتاژ بیش از حد مجاز، دمای بیش از حد
- خنک شونده توسط انتقال به هوای آزاد
- قابلیت اعتماد بالا
- مناسب برای روشنایی های LED و انواع نورافکن و چراغ های خیابانی LED
- دارای ۱۸ ماه گارانتی

مشخصات

FEP-050	مدل
230 VAC (170VAC- 270 VAC), 50HZ	ولتاژ ورودی
50W	حداکثر توان
30VDC - 60VDC	ولتاژ خروجی (حداقل- حداکثر)
900mA	جریان خروجی
> 0.95	ضریب توان (Power Factor)
<17%	اعوجاج هارمونیک (THD)
Up to 90 %	بازده
Short circuit, Open Circuit, Over voltage, Over temperature	انواع محافظت ها
90mm - 33mm - 25mm	ابعاد (طول- عرض- ارتفاع)

Synthesized Test Report

Steady State Cur Range(%) : 2.4	Load Adjustment(%) : 1.7
Voltage Adjustment(%) : 0.9	Power Factor : 0.963
Full Load Efficiency(%) : 90.8	Input Impact Cur(A) : 6.936
Vol Ripple(V) : 0.0	Cur Ripple(A) : 0.011
Start-up Time(s) : 0.33	Overshoot Margin Cur of Start(%) : 7.0
Input Vol Harm IEC(%) : 3.2	Input Cur Harm IEC(%) : 14.7
Input Vol Harm CSA(%) : 3.2	Input Cur Harm CSA(%) : 14.6



Steady State Test Condition: Input Vol:220.0V Max Load Vol

LED Drive Power Type: Con Current

Rank According to <<Lighting LED Drive Power Standard>>: Class I

Qualify According to Custom Define: Qualified

Model:FEP-050
 Manufactory:FETCOM
 Date:2017-10-29
 Humidity(%) : 30
 Test Device: EVERFINE LT-101A

Number:1
 Tester:R&D Unit
 TMP(deg.) : 25
 Remarks:Input:170~270VAC; Output:30~60VDC, 900mA

Steady State Test Data

Steady State Test Data

1. **Condition: Input Vol:170.0V Min Load Vol**
 Input: U:170.5V I:0.178A P:29.65W PF:0.977 F:49.93Hz η : 89.5% Output: U= 30.8V I=0.916A P=26.54W
2. **Condition: Input Vol:170.0V Mid Load Vol**
 Input: U:170.2V I:0.255A P:42.74W PF:0.985 F:49.94Hz η : 90.5% Output: U= 44.8V I=0.902A P=38.66W
3. **Condition: Input Vol:170.0V Max Load Vol**
 Input: U:170.3V I:0.347A P:58.49W PF:0.990 F:49.98Hz η : 90.9% Output: U= 61.7V I=0.887A P=53.15W
4. **Condition: Input Vol:220.0V Min Load Vol**
 Input: U:220.2V I:0.140A P:29.68W PF:0.963 F:49.97Hz η : 89.1% Output: U= 30.8V I=0.910A P=26.44W
5. **Condition: Input Vol:220.0V Mid Load Vol**
 Input: U:218.3V I:0.200A P:42.60W PF:0.976 F:49.93Hz η : 90.3% Output: U= 44.8V I=0.896A P=38.48W
6. **Condition: Input Vol:220.0V Max Load Vol**
 Input: U:220.4V I:0.268A P:58.07W PF:0.983 F:49.97Hz η : 90.9% Output: U= 61.6V I=0.881A P=52.77W
7. **Condition: Input Vol:270.0V Min Load Vol**
 Input: U:270.7V I:0.116A P:29.59W PF:0.942 F:49.92Hz η : 89.3% Output: U= 30.9V I=0.906A P=26.43W
8. **Condition: Input Vol:270.0V Mid Load Vol**
 Input: U:270.3V I:0.164A P:42.73W PF:0.964 F:49.95Hz η : 89.9% Output: U= 44.8V I=0.894A P=38.42W
9. **Condition: Input Vol:270.0V Max Load Vol**
 Input: U:269.8V I:0.220A P:57.91W PF:0.976 F:49.95Hz η : 90.8% Output: U= 61.6V I=0.878A P=52.60W

Adjustment Test Data

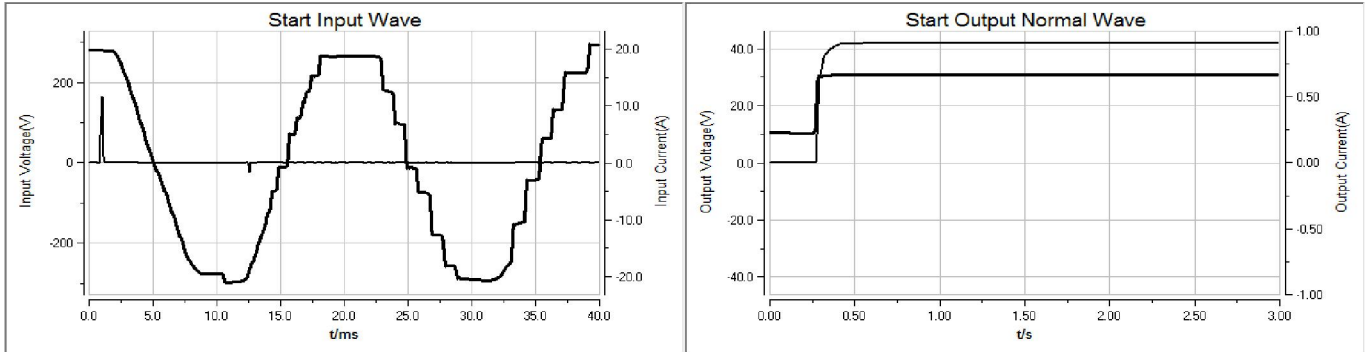
1. **Condition: Input Vol:220.0V Min Load Vol**
 Input: U:219.7V I:0.140A P:29.62W PF:0.963 F:49.97Hz η : 89.2% Output: U= 30.8V I=0.909A P=26.42W
2. **Condition: Input Vol:220.0V Mid Load Vol**
 Input: U:218.5V I:0.200A P:42.63W PF:0.976 F:49.92Hz η : 90.4% Output: U= 44.8V I=0.897A P=38.52W
3. **Condition: Input Vol:220.0V Max Load Vol**
 Input: U:220.2V I:0.269A P:58.24W PF:0.983 F:50.02Hz η : 90.9% Output: U= 61.7V I=0.882A P=52.93W
4. **Condition: Input Vol:170.0V Mid Load Vol**
 Input: U:170.5V I:0.255A P:42.82W PF:0.985 F:49.94Hz η : 90.5% Output: U= 44.8V I=0.904A P=38.76W
5. **Condition: Input Vol:220.0V Mid Load Vol**
 Input: U:218.8V I:0.200A P:42.69W PF:0.976 F:49.93Hz η : 90.1% Output: U= 44.8V I=0.896A P=38.48W
6. **Condition: Input Vol:270.0V Mid Load Vol**
 Input: U:270.3V I:0.164A P:42.72W PF:0.964 F:49.93Hz η : 90.0% Output: U= 44.8V I=0.895A P=38.45W

Model:FEP-050
 Manufactory:FETCOM
 Date:2017-10-29
 Humidity(%):30
 Test Device: EVERFINE LT-101A

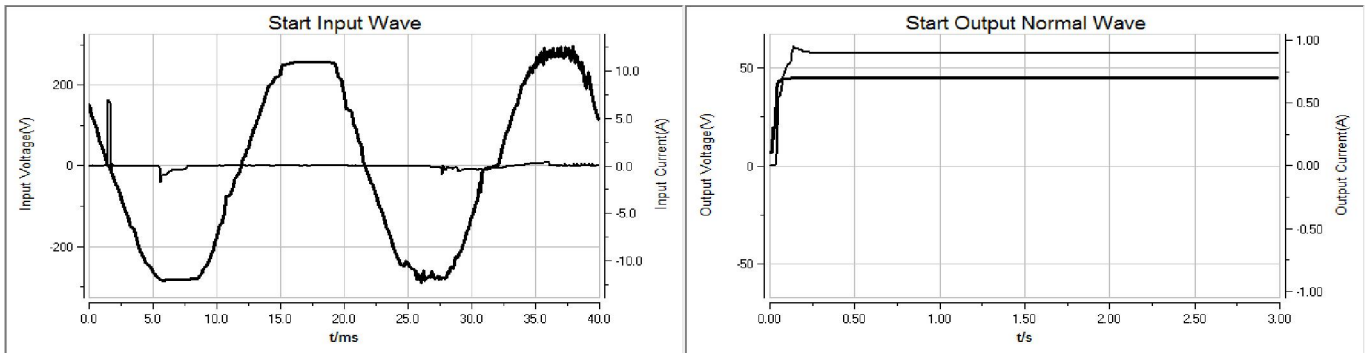
Number:1
 Tester:R&D Unit
 TMP(deg.):25
 Remarks:Input:170~270VAC; Output:30~60VDC, 900mA

Start-up Input/Output Wave

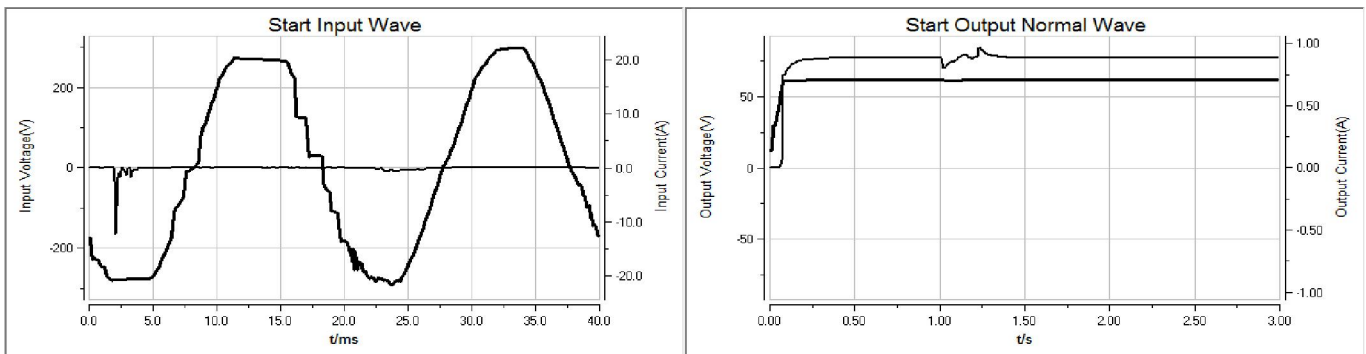
1. Input Vol:220.0V Min Load Vol



2. Input Vol:220.0V Mid Load Vol



3. Input Volt:220.0V Max Load Vol



Model:FEP-050
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 Date:2017-10-29
 Humidity(%):30
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Number:1
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 Remarks:Input:170~270VAC; Output:30~60VDC, 900mA

Start-up Test Data

1. Condition: Input Vol: 220.0V Min Load Vol

Input Parameters: Impact Cur: 11.599A Peak Vol: 298.1V
Output Parameters: Start-up Time: 0.33s Peak Vol: 30.8V Peak Cur: 0.911A

2. Condition: Input Vol: 220.0V Mid Load Vol

Input Parameters: Impact Cur: 6.936A Peak Vol: 296.5V
Output Parameters: Start-up Time: 0.11s Peak Vol: 44.9V Peak Cur: 0.951A

3. Condition: Input Vol: 220.0V Max Load Vol

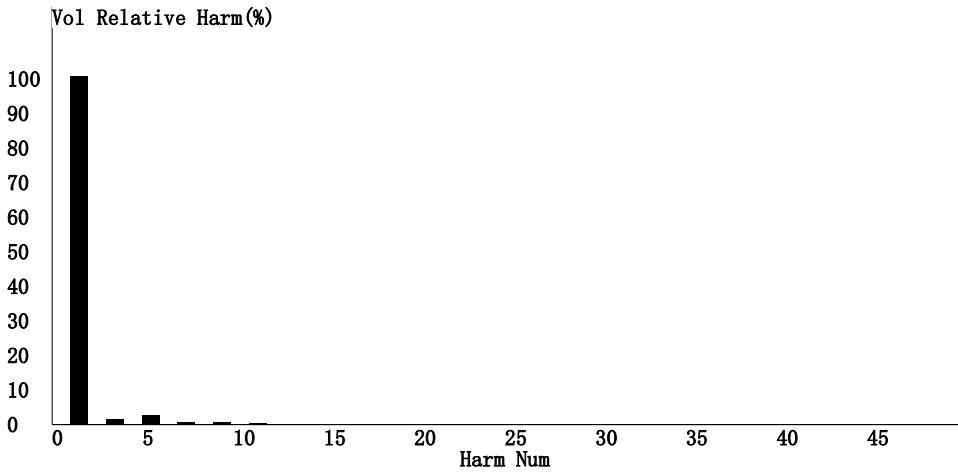
Input Parameters: Impact Cur: -12.213A Peak Vol: 298.5V
Output Parameters: Start-up Time: 0.12s Peak Vol: 61.9V Peak Cur: 0.963A

Model:FEP-050
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Date:2017-10-29
Humidity(%):30
Test Device: EVERFINE LT-101A

Number:1
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Remarks:Input:170~270VAC; Output:30~60VDC, 900mA

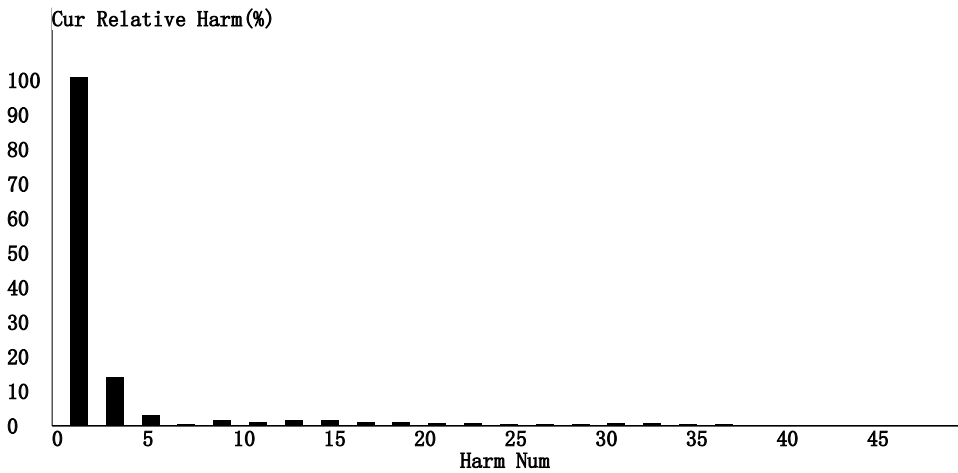
Steady State Input Harm Wave

Steady State Input Vol Harm Wave



Input Vol Harm IEC:3.2%
Input Vol Harm CSA:3.2%
1degree Relative Harm:100.0%
3degree Relative Harm:1.4%
5degree Relative Harm:2.6%

Steady State Input Cur Harm Wave



Input Cur Harm IEC:14.7%
Input Cur Harm CSA:14.6%
1degree Relative Harm:100.0%
3degree Relative Harm:14.0%
5degree Relative Harm:2.9%
9degree Relative Harm:1.6%
13degree Relative Harm:1.6%
15degree Relative Harm:1.6%

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

Model:FEP-050
Manufactory:FETCOM
Date:2017-10-29
Humidity(%) :30
Test Device: EVERFINE LT-101A

Number:1
Tester:R&D Unit
TMP(deg.) :25
Remarks:Input:170~270VAC; Output:30~60VDC, 900mA

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	0.265	100.0	4.556
2	0.0	0.0	0.000	0.0	0.001
3	3.2	1.4	0.037	14.0	0.636
4	0.0	0.0	0.000	0.0	0.001
5	5.8	2.6	0.008	2.9	0.134
6	0.0	0.0	0.000	0.0	0.001
7	1.3	0.6	0.001	0.4	0.019
8	0.0	0.0	0.000	0.0	0.000
9	1.6	0.7	0.004	1.6	0.075
10	0.0	0.0	0.000	0.0	0.000
11	0.8	0.4	0.002	0.9	0.043
12	0.0	0.0	0.000	0.0	0.002
13	0.6	0.3	0.004	1.6	0.074
14	0.0	0.0	0.000	0.0	0.000
15	0.6	0.3	0.004	1.6	0.073
16	0.0	0.0	0.000	0.0	0.002
17	0.3	0.1	0.003	1.0	0.043
18	0.0	0.0	0.000	0.0	0.001
19	0.2	0.1	0.002	0.9	0.042
20	0.0	0.0	0.000	0.0	0.001
21	0.2	0.1	0.002	0.7	0.030
22	0.0	0.0	0.000	0.0	0.001
23	0.3	0.1	0.002	0.6	0.027
24	0.1	0.0	0.000	0.0	0.002
25	0.1	0.1	0.001	0.5	0.021
26	0.0	0.0	0.000	0.0	0.001
27	0.2	0.1	0.001	0.5	0.023
28	0.0	0.0	0.000	0.0	0.001
29	0.2	0.1	0.001	0.3	0.014
30	0.0	0.0	0.000	0.0	0.002
31	0.1	0.1	0.002	0.6	0.026
32	0.0	0.0	0.000	0.1	0.002
33	0.0	0.0	0.002	0.6	0.026
34	0.0	0.0	0.000	0.0	0.002
35	0.1	0.1	0.001	0.3	0.015
36	0.0	0.0	0.000	0.1	0.002
37	0.0	0.0	0.001	0.4	0.016
38	0.0	0.0	0.000	0.0	0.001
39	0.0	0.0	0.000	0.2	0.008
40	0.0	0.0	0.000	0.0	0.002
41	0.1	0.0	0.000	0.1	0.005
42	0.0	0.0	0.000	0.0	0.001
43	0.0	0.0	0.000	0.1	0.006
44	0.0	0.0	0.000	0.0	0.000
45	0.0	0.0	0.000	0.2	0.009
46	0.0	0.0	0.000	0.0	0.001
47	0.0	0.0	0.001	0.3	0.012
48	0.0	0.0	0.000	0.0	0.001
49	0.0	0.0	0.001	0.2	0.010
50	0.0	0.0	0.000	0.0	0.001

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