



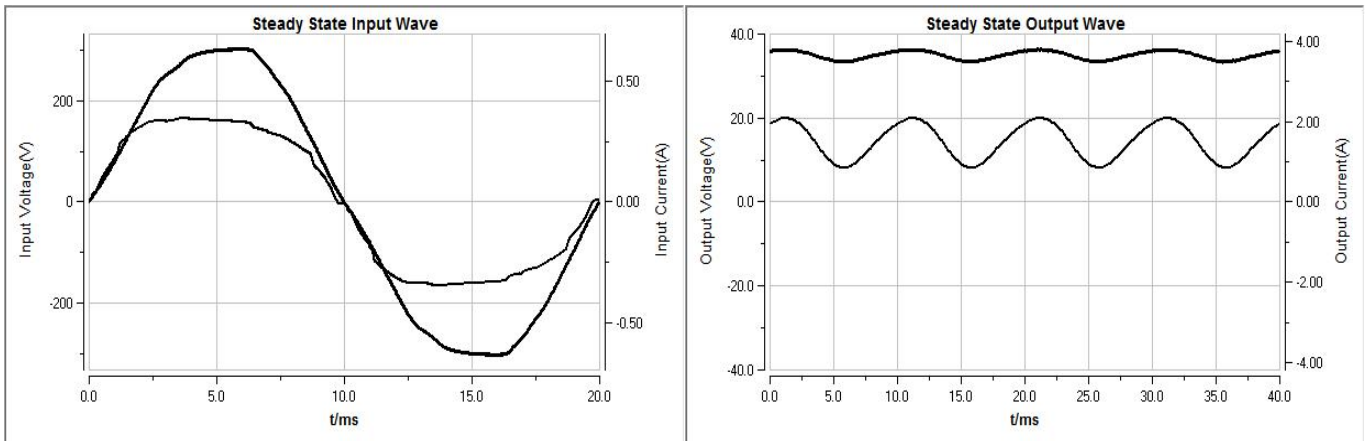
- ویژگی ها:
- ولتاژ ورودی بین ۱۷۰ تا ۲۷۰ ولت متناوب
- دارای محافظت در برابر: اتصال کوتاه در خروجی، جریان بیش از حد مجاز، ولتاژ بیش از حد مجاز، دمای بیش از حد
- خنک شونده توسط انتقال به هوای آزاد
- قابلیت اعتماد بالا
- مناسب برای روشنایی های LED و انواع نورافکن و چراغ های خیابانی LED
- دارای ۱۸ ماه گارانتی

مشخصات

FNR-050	مدل
230 VAC (170VAC- 270 VAC), 50HZ	ولتاژ ورودی
50W	حداکثر توان
24VDC - 36VDC	ولتاژ خروجی (حداقل- حداکثر)
1.5A	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(%) : 8.7	Load Adjustment(%) : 1.9
Voltage Adjustment(%) : 0.3	Power Factor : 0.974
Full Load Efficiency(%) : 89.4	Input Impact Cur(A) : 1.070
Vol Ripple(V) : 0.0	Cur Ripple(A) : 0.014
Start-up Time(s) : 0.25	Overshoot Margin Cur of Start(%) : 8.5
Input Vol Harm IEC(%) : 3.5	Input Cur Harm IEC(%) : 14.2
Input Vol Harm CSA(%) : 3.5	Input Cur Harm CSA(%) : 14.1



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 II

Qualify According to Custom Define: Qualified

Model:FNR-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:24~36VDC, 1500mA

Steady State Test Data

Steady State Test Data

1. **Condition: Input Vol:170.0V Min Load Vol**
 Input: U:168.1V I:0.250A P:41.28W PF:0.982 F:50.01Hz η : 88.3% Output: U= 23.5V I=1.631A P=36.46W
2. **Condition: Input Vol:170.0V Mid Load Vol**
 Input: U:171.0V I:0.300A P:50.54W PF:0.985 F:49.98Hz η : 89.2% Output: U= 29.3V I=1.603A P=45.07W
3. **Condition: Input Vol:170.0V Max Load Vol**
 Input: U:170.8V I:0.352A P:59.40W PF:0.988 F:50.01Hz η : 89.6% Output: U= 35.1V I=1.567A P=53.24W
4. **Condition: Input Vol:220.0V Min Load Vol**
 Input: U:219.7V I:0.193A P:41.31W PF:0.974 F:49.94Hz η : 87.8% Output: U= 23.4V I=1.627A P=36.25W
5. **Condition: Input Vol:220.0V Mid Load Vol**
 Input: U:219.5V I:0.235A P:50.54W PF:0.980 F:50.05Hz η : 88.8% Output: U= 29.2V I=1.601A P=44.88W
6. **Condition: Input Vol:220.0V Max Load Vol**
 Input: U:219.9V I:0.275A P:59.46W PF:0.983 F:50.03Hz η : 89.6% Output: U= 35.1V I=1.567A P=53.27W
7. **Condition: Input Vol:270.0V Min Load Vol**
 Input: U:270.0V I:0.160A P:41.62W PF:0.963 F:50.01Hz η : 87.7% Output: U= 23.5V I=1.630A P=36.49W
8. **Condition: Input Vol:270.0V Mid Load Vol**
 Input: U:271.4V I:0.192A P:50.62W PF:0.972 F:50.01Hz η : 88.9% Output: U= 29.2V I=1.605A P=44.98W
9. **Condition: Input Vol:270.0V Max Load Vol**
 Input: U:269.1V I:0.227A P:59.73W PF:0.978 F:50.02Hz η : 89.4% Output: U= 35.1V I=1.573A P=53.42W

Adjustment Test Data

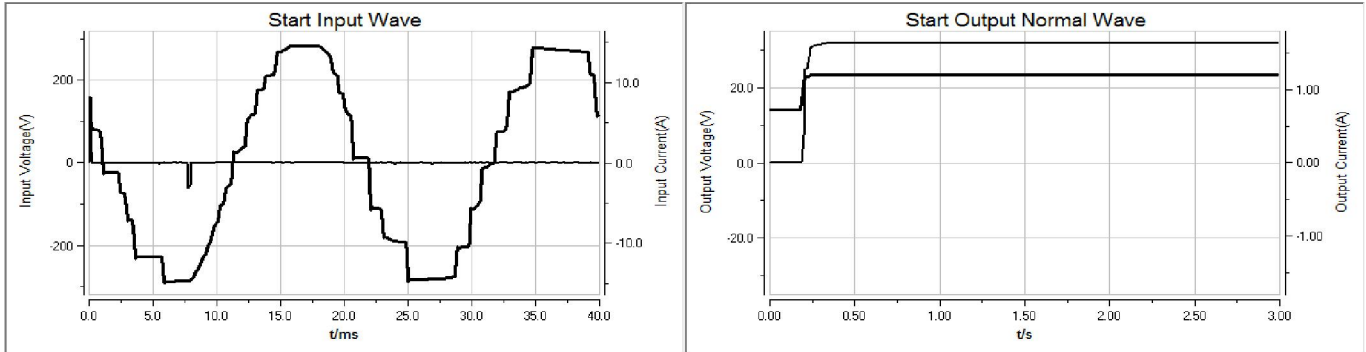
1. **Condition: Input Vol:220.0V Min Load Vol**
 Input: U:219.0V I:0.193A P:41.18W PF:0.974 F:49.93Hz η : 88.1% Output: U= 23.4V I=1.627A P=36.26W
2. **Condition: Input Vol:220.0V Mid Load Vol**
 Input: U:220.9V I:0.233A P:50.42W PF:0.980 F:49.98Hz η : 88.8% Output: U= 29.2V I=1.597A P=44.79W
3. **Condition: Input Vol:220.0V Max Load Vol**
 Input: U:220.2V I:0.275A P:59.55W PF:0.983 F:49.99Hz η : 89.7% Output: U= 35.1V I=1.571A P=53.40W
4. **Condition: Input Vol:170.0V Mid Load Vol**
 Input: U:170.9V I:0.298A P:50.18W PF:0.985 F:49.98Hz η : 89.1% Output: U= 29.2V I=1.596A P=44.72W
5. **Condition: Input Vol:220.0V Mid Load Vol**
 Input: U:222.2V I:0.232A P:50.48W PF:0.979 F:49.99Hz η : 88.8% Output: U= 29.2V I=1.599A P=44.84W
6. **Condition: Input Vol:270.0V Mid Load Vol**
 Input: U:271.0V I:0.192A P:50.55W PF:0.971 F:50.01Hz η : 88.9% Output: U= 29.2V I=1.604A P=44.95W

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

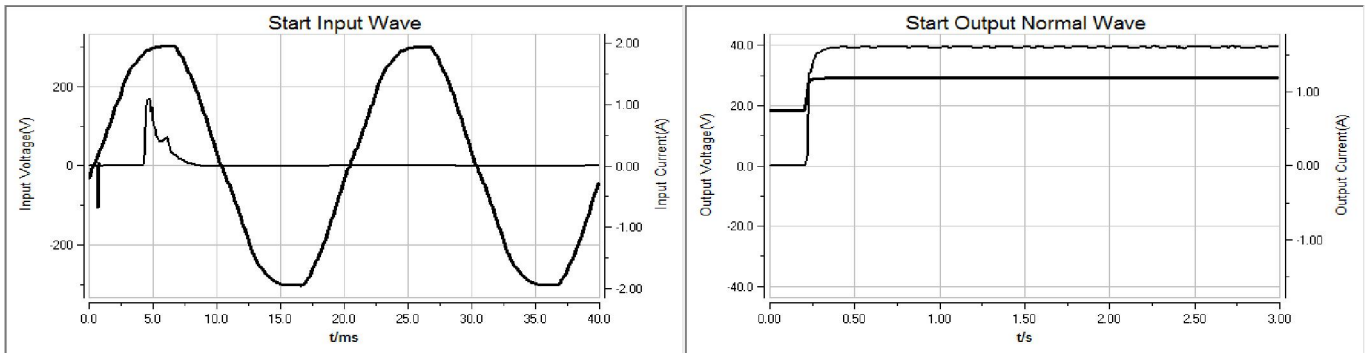
Number:1
 Tester:R&D Unit
 TMP(deg.):25
 Remarks:Input:170~270VAC; Output:24~36VDC, 1500mA

Start-up Input/Output Wave

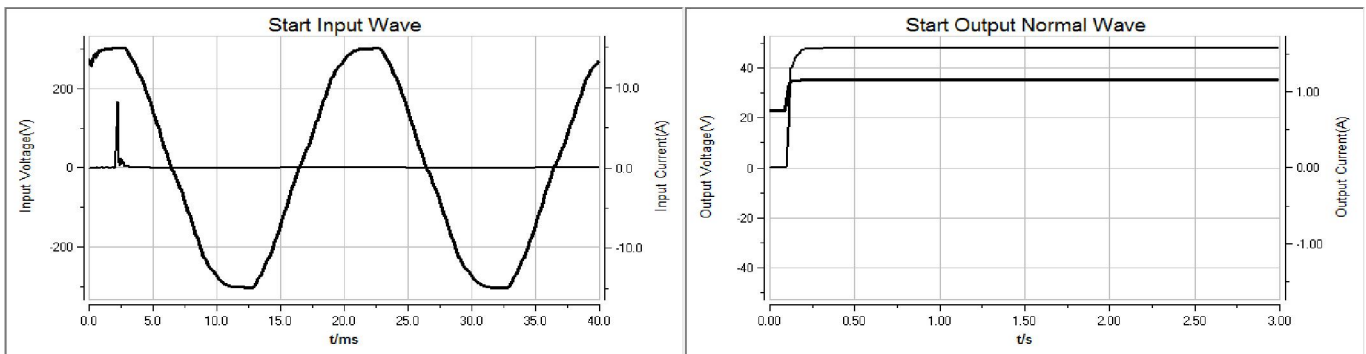
1. Input Vol:220.0V Min Load Vol



2. Input Vol:220.0V Mid Load Vol



3. Input Volt:220.0V Max Load Vol



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

Number:1
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 TMP(deg.):25
 Remarks:Input:170~270VAC; Output:24~36VDC, 1500mA

Start-up Test Data

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

Input Parameters: Impact Cur: 8.184A Peak Vol: -289.3V
Output Parameters: Start-up Time: 0.23s Peak Vol: 23.4V Peak Cur: 1.628A

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

Input Parameters: Impact Cur: 1.070A Peak Vol: 302.5V
Output Parameters: Start-up Time: 0.25s Peak Vol: 29.2V Peak Cur: 1.619A

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

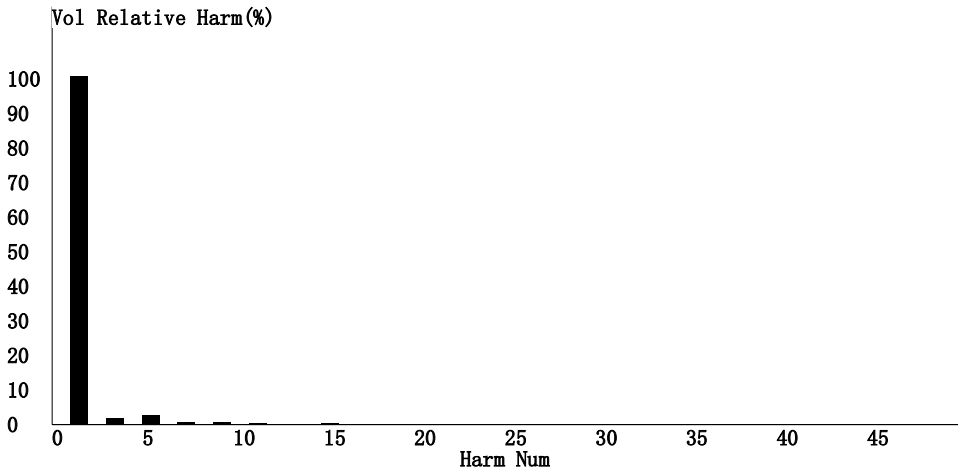
Input Parameters: Impact Cur: 8.199A Peak Vol: -302.8V
Output Parameters: Start-up Time: 0.14s Peak Vol: 35.1V Peak Cur: 1.573A

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

Number:1
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Remarks:Input:170~270VAC; Output:24~36VDC, 1500mA

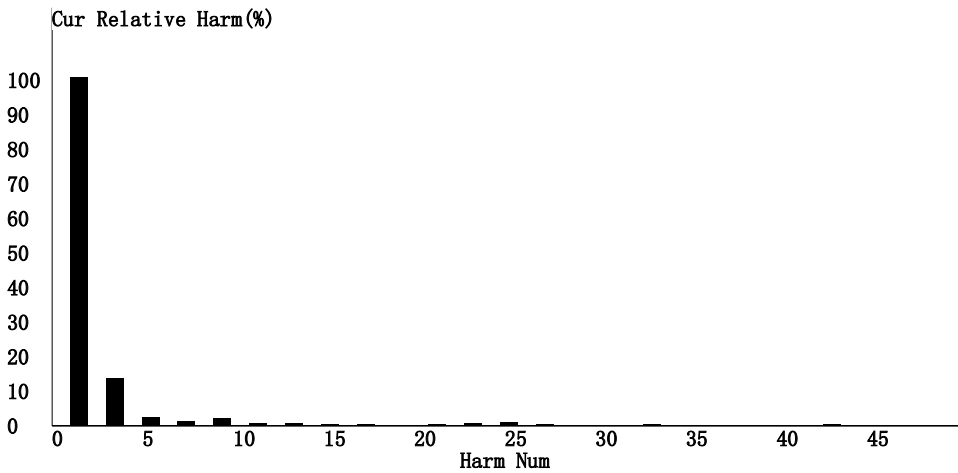
Steady State Input Harm Wave

Steady State Input Vol Harm Wave



Input Vol Harm IEC:3.5%
Input Vol Harm CSA:3.5%
1degree Relative Harm:100.0%
3degree Relative Harm:1.7%
5degree Relative Harm:2.8%

Steady State Input Cur Harm Wave



Input Cur Harm IEC:14.2%
Input Cur Harm CSA:14.1%
1degree Relative Harm:100.0%
3degree Relative Harm:13.6%
5degree Relative Harm:2.5%
7degree Relative Harm:1.3%
9degree Relative Harm:2.1%

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

Model:FNR-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:24~36VDC, 1500mA

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	219.7	100.0	0.273	100.0	4.588
2	0.1	0.0	0.000	0.0	0.002
3	3.8	1.7	0.037	13.6	0.626
4	0.0	0.0	0.000	0.0	0.001
5	6.1	2.8	0.007	2.5	0.114
6	0.0	0.0	0.000	0.0	0.002
7	1.4	0.6	0.004	1.3	0.061
8	0.0	0.0	0.000	0.0	0.001
9	1.6	0.7	0.006	2.1	0.096
10	0.0	0.0	0.000	0.0	0.001
11	0.7	0.3	0.002	0.7	0.032
12	0.0	0.0	0.000	0.0	0.001
13	0.4	0.2	0.002	0.7	0.032
14	0.0	0.0	0.000	0.0	0.002
15	0.8	0.4	0.001	0.5	0.022
16	0.0	0.0	0.000	0.0	0.001
17	0.4	0.2	0.001	0.3	0.016
18	0.0	0.0	0.000	0.0	0.002
19	0.2	0.1	0.001	0.2	0.009
20	0.0	0.0	0.000	0.0	0.000
21	0.1	0.0	0.001	0.5	0.023
22	0.0	0.0	0.000	0.0	0.001
23	0.2	0.1	0.002	0.6	0.029
24	0.0	0.0	0.000	0.0	0.001
25	0.2	0.1	0.003	0.9	0.043
26	0.0	0.0	0.000	0.0	0.001
27	0.1	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	0.2	0.010
30	0.0	0.0	0.000	0.0	0.001
31	0.1	0.1	0.000	0.2	0.008
32	0.0	0.0	0.000	0.0	0.002
33	0.1	0.0	0.001	0.3	0.013
34	0.0	0.0	0.000	0.0	0.001
35	0.1	0.1	0.001	0.2	0.011
36	0.0	0.0	0.000	0.0	0.000
37	0.0	0.0	0.000	0.1	0.004
38	0.0	0.0	0.000	0.0	0.001
39	0.0	0.0	0.001	0.2	0.010
40	0.0	0.0	0.000	0.0	0.001
41	0.1	0.0	0.001	0.3	0.012
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	0.2	0.010
46	0.0	0.0	0.000	0.0	0.001
47	0.0	0.0	0.000	0.1	0.005
48	0.0	0.0	0.000	0.0	0.001
49	0.0	0.0	0.001	0.2	0.009
50	0.0	0.0	0.000	0.0	0.001

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