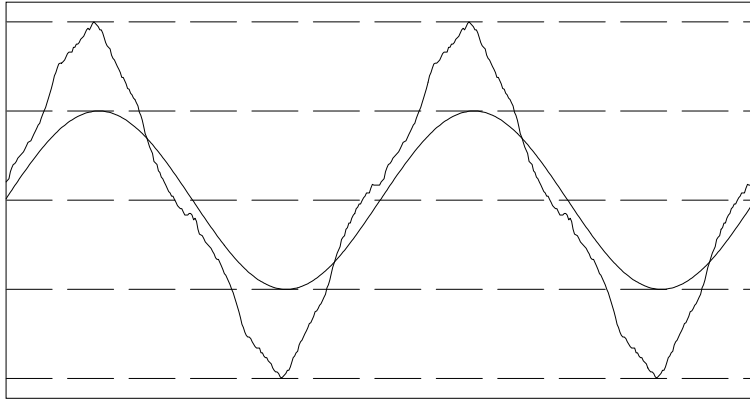


# Electronic Ballast Test Report

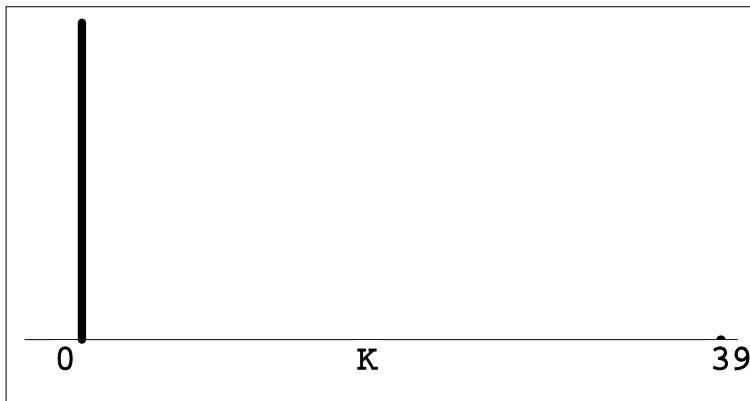
## Input Characteristics[Narrow Band](I)

Vrms	Arms	Power	PF	Freq.
229.9(V)	0.129(A)	28.68(W)	0.970	49.99(Hz)

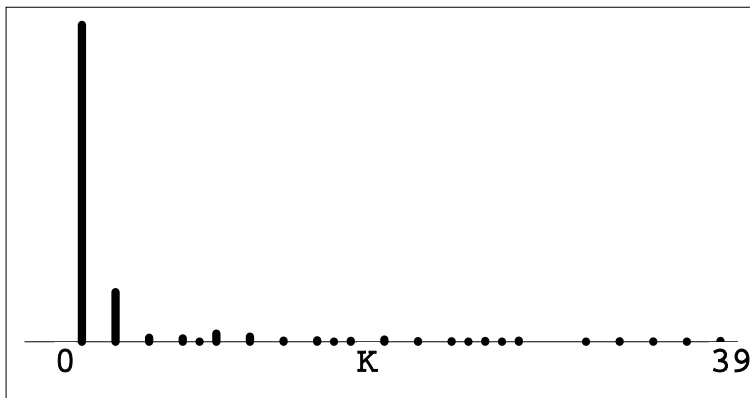


Voltage  
Sensitivity : 324.64 V/Div  
Peak Voltage: 324.6 V

Current  
Sensitivity: 0.108 A/Div  
Peak Current: 0.216 A  
Start Phase: 0.0 ~  
Peak Phase: 84.4 ~  
End Phase: 161.7 ~



Voltage Spec.  
Vthd: 0.1%(IEC)  
Vh3 : 0.0%  
Vh5 : 0.0%  
Vh7 : 0.0%  
Vh9 : 0.0%



Current Spec.  
Athd: 16.1%(IEC)  
Ah3 : 15.7%  
Ah5 : 1.3%  
Ah7 : 1.1%  
Ah9 : 2.6%

Test Instrument: Everfine HB-5A System  
Manufacturer: Everfine  
Type: Test input  
Temperature: 25deg  
Operator:

Number: 1  
Humidity: 75%  
Inspector:

# Electronic Ballast Test Report

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## Input Characteristics[Narrow Band](II)

Vrms:229.9(V)  
VCF :1.41  
Vthd: 0.1%(IEC)

Arms:0.129(A)  
Acf : 1.68  
Athd: 16.1%(IEC)

### Voltage Spectrum

K	relat.	Vrmsk
0	0.0%	0.0
1	100.0%	229.8
2	0.0%	0.0
3	0.0%	0.0
4	0.0%	0.0
5	0.0%	0.1
6	0.0%	0.0
7	0.0%	0.1
8	0.0%	0.0
9	0.0%	0.1
10	0.0%	0.0
11	0.0%	0.0
12	0.0%	0.0
13	0.0%	0.0
14	0.0%	0.0
15	0.0%	0.1
16	0.0%	0.0
17	0.0%	0.0
18	0.0%	0.0
19	0.0%	0.0
20	0.0%	0.0
21	0.0%	0.0
22	0.0%	0.0
23	0.0%	0.0
24	0.0%	0.0
25	0.0%	0.0
26	0.0%	0.0
27	0.0%	0.0
28	0.0%	0.0
29	0.0%	0.0
30	0.0%	0.0
31	0.0%	0.0
32	0.0%	0.0
33	0.0%	0.0
34	0.0%	0.0
35	0.0%	0.0
36	0.0%	0.0
37	0.0%	0.0
38	0.0%	0.0
39	0.0%	0.1

### Current Spectrum

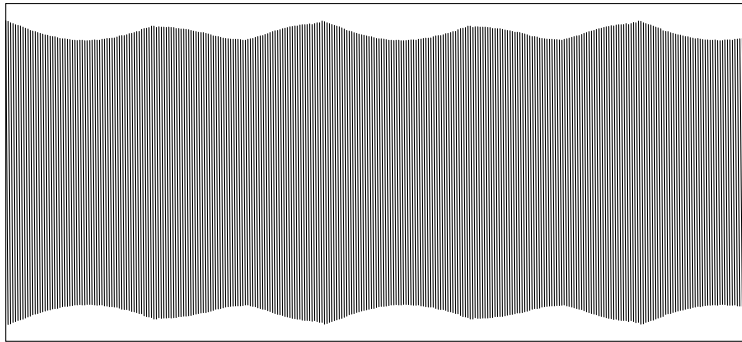
K	relat.	Armsk	mA/W
0	0.0%	0.000	0.00
1	100.0%	0.127	4.43
2	0.0%	0.000	0.00
3	15.7%	0.020	0.69
4	0.0%	0.000	0.00
5	1.3%	0.002	0.06
6	0.0%	0.000	0.00
7	1.1%	0.001	0.05
8	0.1%	0.000	0.00
9	2.6%	0.003	0.12
10	0.0%	0.000	0.00
11	1.7%	0.002	0.07
12	0.0%	0.000	0.00
13	0.4%	0.000	0.02
14	0.0%	0.000	0.00
15	0.5%	0.001	0.02
16	0.1%	0.000	0.00
17	0.3%	0.000	0.01
18	0.0%	0.000	0.00
19	0.7%	0.001	0.03
20	0.0%	0.000	0.00
21	0.2%	0.000	0.01
22	0.0%	0.000	0.00
23	0.2%	0.000	0.01
24	0.1%	0.000	0.00
25	0.3%	0.000	0.01
26	0.1%	0.000	0.00
27	0.4%	0.001	0.02
28	0.1%	0.000	0.00
29	0.0%	0.000	0.00
30	0.0%	0.000	0.00
31	0.1%	0.000	0.00
32	0.0%	0.000	0.00
33	0.2%	0.000	0.01
34	0.0%	0.000	0.00
35	0.1%	0.000	0.00
36	0.0%	0.000	0.00
37	0.1%	0.000	0.00
38	0.0%	0.000	0.00
39	0.3%	0.000	0.01

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Test Instrument:Everfine HB-5A System  
Manufacturer:Everfine  
Type:Test input  
Temperature:25deg  
Operater:

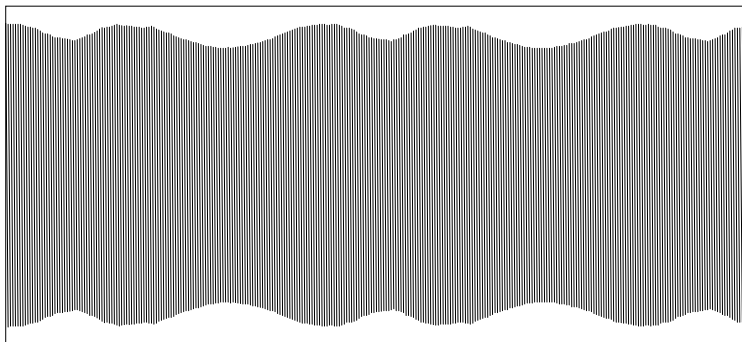
Number:1  
Humidity:75%  
Inspector:

### Steady State Characteristics



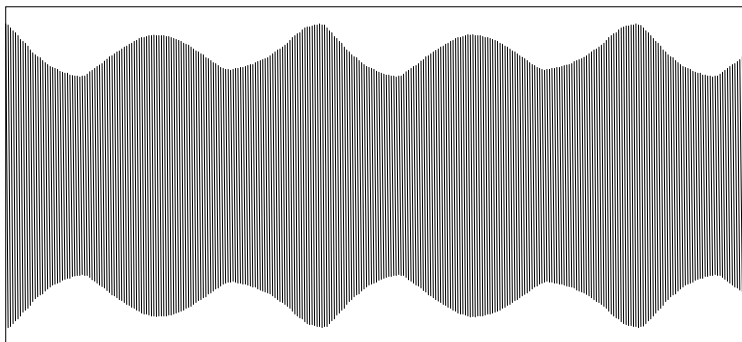
Lamp Voltage

Vlrms : 184.1(V)  
Vlp : 275.2(V)  
Vlcf : 1.49  
Vlhfrms: 200.1(V)  
Vlcfhf : 1.38



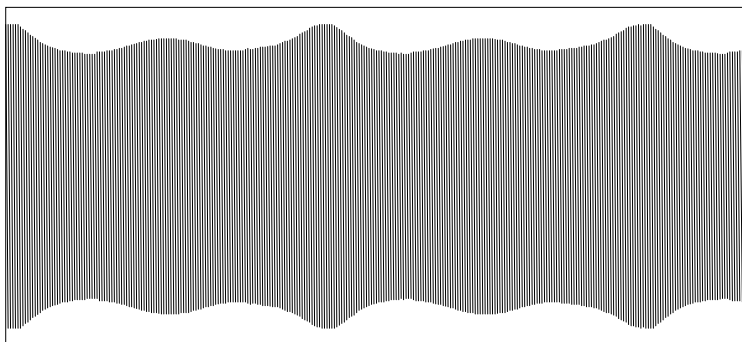
Filament Current

Afrms : 0.101(A)  
Afp : 0.182(A)  
Afcf : 1.80  
Afrmshf: 0.109(A)  
Afcfhf : 1.67



Lamp Current

Alrms : 0.138(A)  
Alp : 0.247(A)  
Alcf : 1.78  
Aldhc : 0.00 %  
Alrmshf: 0.170(A)  
Alcfhf : 1.45  
Pout : 25.1 (W)



Cathode Current

Akrms : 0.178(A)  
Akp : 0.296(A)  
Akcf : 1.67  
Akrmshf: 0.203(A)  
Akcfhf : 1.46  
Freq : 42.59(kHz)

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Test Instrument:Everfine HB-5A System  
Manufacturer:Everfine  
Type:Test input  
Temperature:25deg  
Operater:

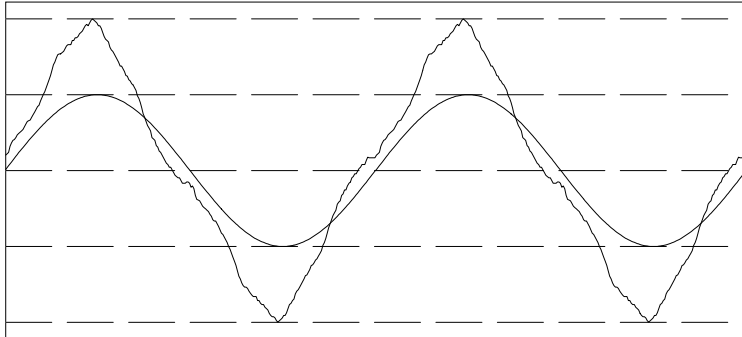
Number:1  
Humidity:75%  
Inspector:

# Electronic Ballast Test Report

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## Input & Output Characteristics Test Report

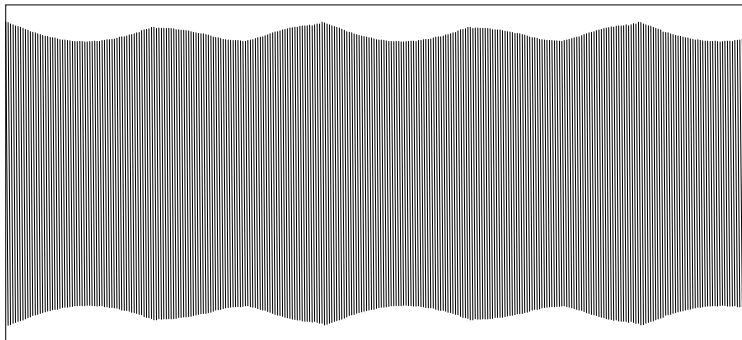
### I. Input Characteristics



Vrms : 229.9(V)  
Vp : 324.6(V)  
Vthd : 0.1%(IEC)  
Arms : 0.129(A)  
Ap : 0.216(A)  
Athd : 16.1%(IEC)  
Power: 28.68(W)  
PF : 0.970  
Freq : 49.99(Hz)

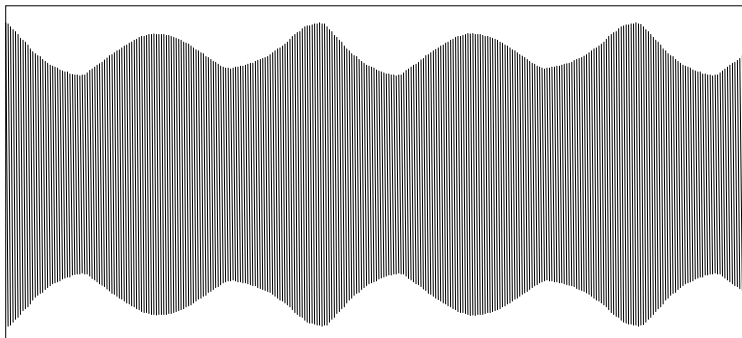
### II. Output Characteristics

#### Lamp Voltage Wave



Vlrms: 184.1(V)  
Alrms: 0.138(A)  
Afrms: 0.101(A)  
Akrms: 0.178(A)  
Pout : 25.1 (W)

#### Lamp Current Wave



Freq : 42.590(kHz)  
Alcf : 1.78

---

Test Instrument: Everfine HB-5A System  
Manufacturer: Everfine  
Type: Test input  
Temperature: 25deg  
Operater:

Number: 1  
Humidity: 75%  
Inspector: