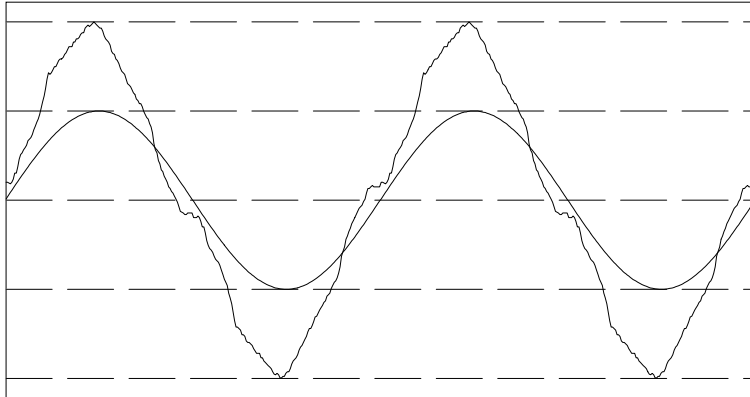


# Electronic Ballast Test Report

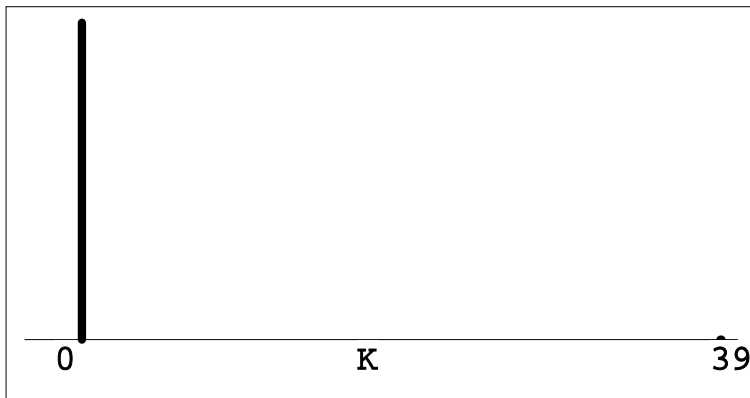
## Input Characteristics[Narrow Band](I)

Vrms	Arms	Power	PF	Freq.
220.0(V)	0.138(A)	29.63(W)	0.977	50.00(Hz)

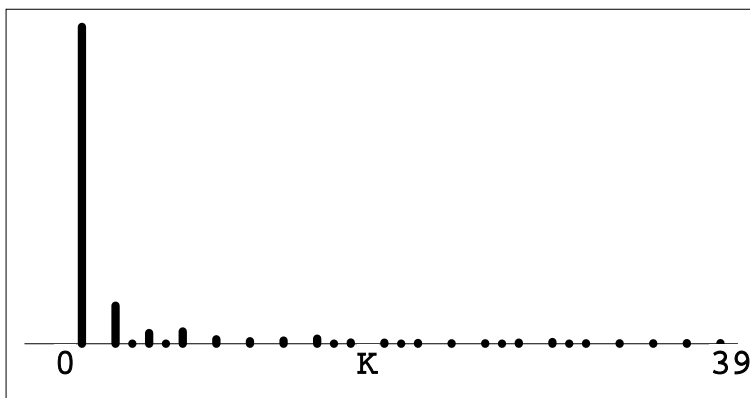


Voltage  
Sensitivity : 310.92 V/Div  
Peak Voltage: 310.9 V

Current  
Sensitivity: 0.111 A/Div  
Peak Current: 0.222 A  
Start Phase: 0.0 ~  
Peak Phase: 84.4 ~  
End Phase: 163.1 ~



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



Current Spec.  
Athd: 13.4%(IEC)  
Ah3 : 12.0%  
Ah5 : 3.4%  
Ah7 : 3.9%  
Ah9 : 1.4%

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

Number: 1  
Humidity: 75%  
Inspector:

# Electronic Ballast Test Report

---

## Input Characteristics[Narrow Band](II)

Vrms:220.0(V)  
VCF :1.41  
Vthd: 0.1%(IEC)

Arms:0.138(A)  
Acf : 1.61  
Athd: 13.4%(IEC)

### Voltage Spectrum

K	relat.	Vrmsk
0	0.0%	0.0
1	100.0%	220.0
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%	0.0
8	0.0%	0.0
9	0.0%	0.0
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%	0.0

### Current Spectrum

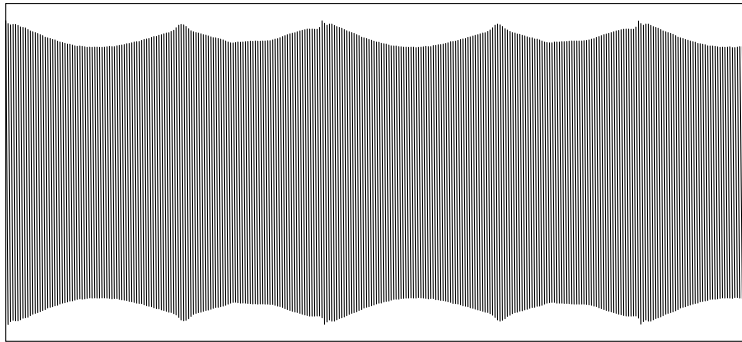
K	relat.	Armsk	mA/W
0	0.0%	0.000	0.00
1	100.0%	0.137	4.63
2	0.1%	0.000	0.00
3	12.0%	0.016	0.56
4	0.1%	0.000	0.00
5	3.4%	0.005	0.16
6	0.1%	0.000	0.00
7	3.9%	0.005	0.18
8	0.0%	0.000	0.00
9	1.4%	0.002	0.07
10	0.0%	0.000	0.00
11	0.8%	0.001	0.04
12	0.0%	0.000	0.00
13	1.0%	0.001	0.05
14	0.0%	0.000	0.00
15	1.6%	0.002	0.07
16	0.1%	0.000	0.00
17	0.5%	0.001	0.02
18	0.0%	0.000	0.00
19	0.4%	0.000	0.02
20	0.1%	0.000	0.00
21	0.3%	0.000	0.01
22	0.0%	0.000	0.00
23	0.2%	0.000	0.01
24	0.0%	0.000	0.00
25	0.2%	0.000	0.01
26	0.1%	0.000	0.00
27	0.4%	0.001	0.02
28	0.0%	0.000	0.00
29	0.6%	0.001	0.03
30	0.1%	0.000	0.00
31	0.2%	0.000	0.01
32	0.0%	0.000	0.00
33	0.2%	0.000	0.01
34	0.0%	0.000	0.00
35	0.2%	0.000	0.01
36	0.0%	0.000	0.00
37	0.2%	0.000	0.01
38	0.0%	0.000	0.00
39	0.2%	0.000	0.01

---

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

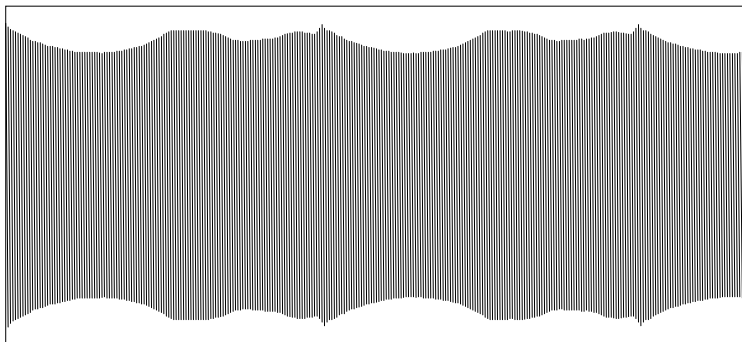
Number:1  
Humidity:75%  
Inspector:

### Steady State Characteristics



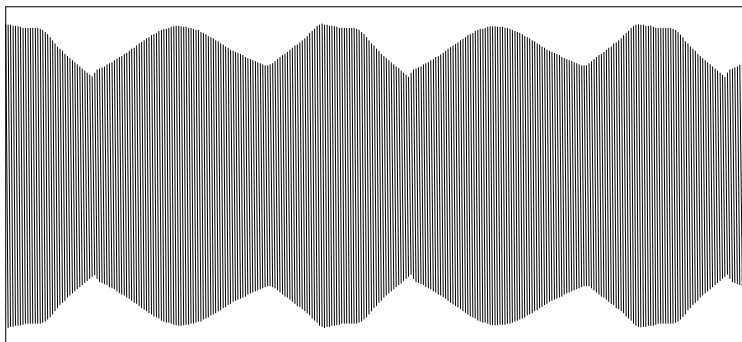
Lamp Voltage

Vlrms : 199.0(V)  
Vlp : 308.3(V)  
Vlcf : 1.55  
Vlhfrms: 223.3(V)  
Vlcfhf : 1.38



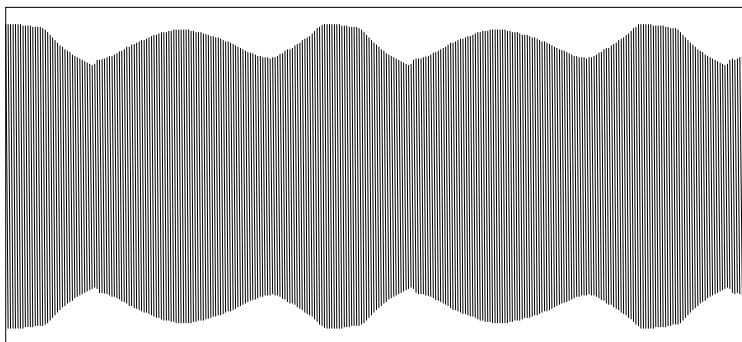
Filament Current

Afrms : 0.074(A)  
Afp : 0.145(A)  
Afcf : 1.94  
Afrmshf: 0.084(A)  
Afcfhf : 1.72



Lamp Current

Alrms : 0.135(A)  
Alp : 0.229(A)  
Alcf : 1.69  
Aldhc : 0.53 %  
Alrmshf: 0.156(A)  
Alcfhf : 1.46  
Pout : 26.2 (W)



Cathode Current

Akrms : 0.162(A)  
Akp : 0.266(A)  
Akcf : 1.65  
Akrmshf: 0.183(A)  
Akcfhf : 1.46  
Freq : 41.95(kHz)

---

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

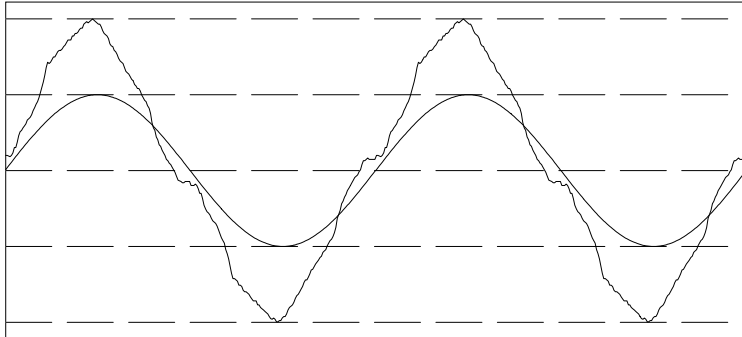
Number: 1  
Humidity: 75%  
Inspector:

# Electronic Ballast Test Report

---

## Input & Output Characteristics Test Report

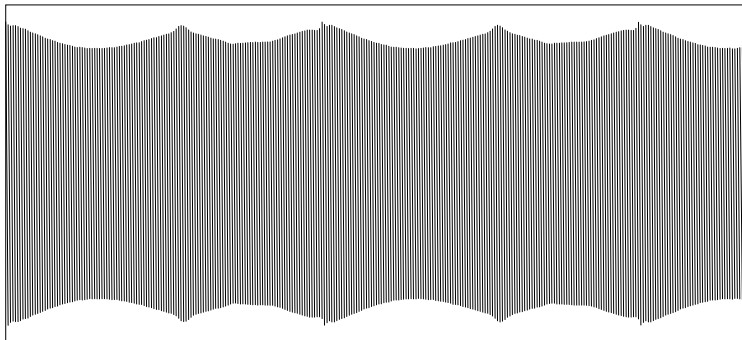
### I. Input Characteristics



Vrms : 220.0(V)  
Vp : 310.9(V)  
Vthd : 0.1%(IEC)  
Arms : 0.138(A)  
Ap : 0.222(A)  
Athd : 13.4%(IEC)  
Power: 29.63(W)  
PF : 0.977  
Freq : 50.00(Hz)

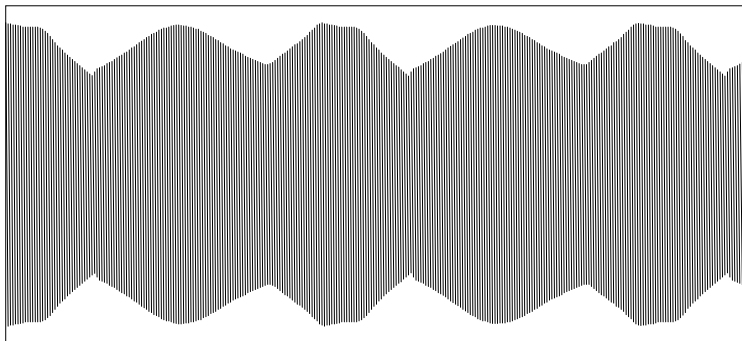
### II. Output Characteristics

#### Lamp Voltage Wave



Vlrms: 199.0(V)  
Alrms: 0.135(A)  
Afrms: 0.074(A)  
Akrms: 0.162(A)  
Pout : 26.2 (W)

#### Lamp Current Wave



Freq : 41.950(kHz)  
Alcf : 1.69

---

Test Instrument: Everfine HB-5A System

Manufacturer: Everfine

Type: Test input

Temperature: 25deg

Operator:

Number: 1

Humidity: 75%

Inspector: