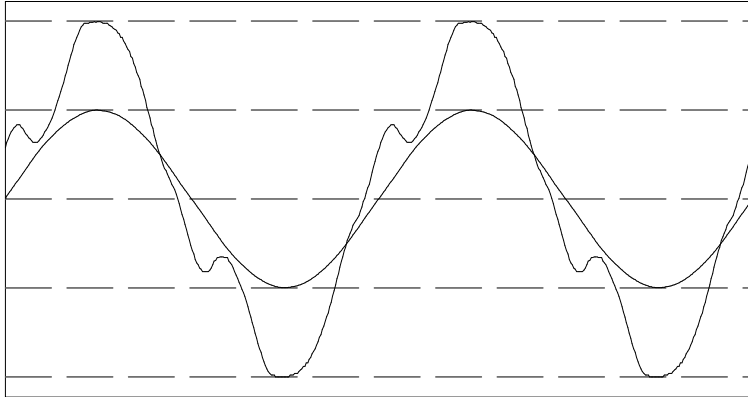


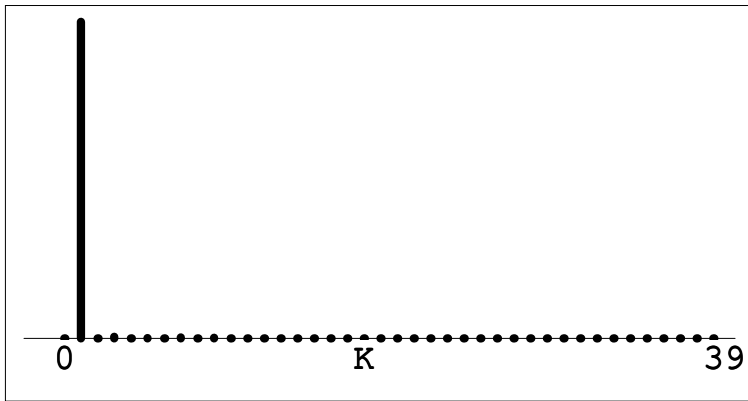
Electronic Ballast Test Report

Input Characteristics [Narrow Band] (I)

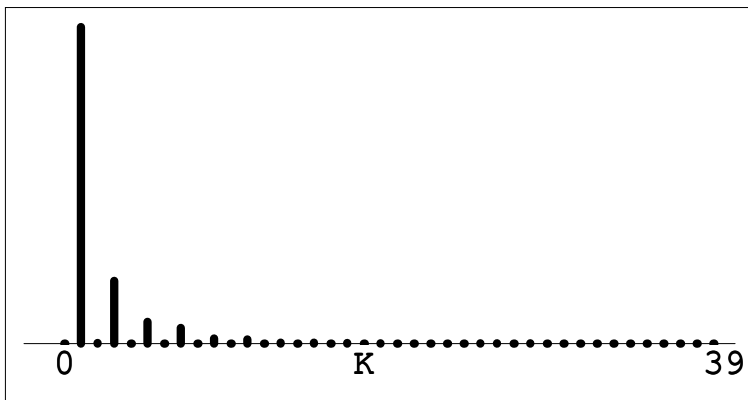
Vrms 219.5 (V) Arms 0.125 (A) Power 26.72 (W) PF 0.972 Freq. 50.54 (Hz)



Voltage
Sensitivity : 312.73 V/Div
Peak Voltage: 312.7 V
Current
Sensitivity: 0.097 A/Div
Peak Current: 0.194 A
Start Phase: -14.1°
Peak Phase: 85.8°
End Phase: 165.9°



Voltage Spec.
Vthd: 0.8% (IEC)
Vh3: 0.6%
Vh5: 0.2%
Vh7: 0.3%
Vh9: 0.2%



Current Spec.
Athd: 21.7% (IEC)
Ah3: 19.8%
Ah5: 6.9%
Ah7: 5.0%
Ah9: 1.7%

Test Instrument: Everfine HB-3A System

Manufacturer: Everfine

Type: 220VT5E-28

Temperature: 25deg

Operator:

Number: 1

Humidity: 75%

Inspector:

y m d

y m d

Electronic Ballast Test Report

Input Characteristics [Narrow Band] (II)

Vrms:219.5 (V)
VCF :1.42
Vthd:0.8 % (IEC)

Arms:0.125 (A)
ACF :1.55
Athd:21.7 % (IEC)

Voltage Spectrum

K	relat.	Vrmsk
0	0.0%	0.0
1	100.0%	219.5
2	0.0%	0.1
3	0.6%	1.3
4	0.0%	0.1
5	0.2%	0.4
6	0.0%	0.0
7	0.3%	0.7
8	0.0%	0.0
9	0.2%	0.5
10	0.0%	0.0
11	0.0%	0.1
12	0.0%	0.0
13	0.1%	0.2
14	0.0%	0.1
15	0.1%	0.2
16	0.0%	0.1
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%	0.1
27	0.0%	0.0
28	0.0%	0.1
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%	0.122	4.58
2	0.3%	0.000	0.01
3	19.8%	0.024	0.91
4	0.0%	0.000	0.00
5	6.9%	0.008	0.32
6	0.1%	0.000	0.00
7	5.0%	0.006	0.23
8	0.0%	0.000	0.00
9	1.7%	0.002	0.08
10	0.0%	0.000	0.00
11	1.4%	0.002	0.06
12	0.0%	0.000	0.00
13	0.3%	0.000	0.02
14	0.0%	0.000	0.00
15	0.3%	0.000	0.02
16	0.1%	0.000	0.00
17	0.2%	0.000	0.01
18	0.0%	0.000	0.00
19	0.1%	0.000	0.01
20	0.1%	0.000	0.00
21	0.0%	0.000	0.00
22	0.1%	0.000	0.00
23	0.0%	0.000	0.00
24	0.1%	0.000	0.00
25	0.2%	0.000	0.01
26	0.1%	0.000	0.00
27	0.0%	0.000	0.00
28	0.1%	0.000	0.01
29	0.1%	0.000	0.00
30	0.1%	0.000	0.00
31	0.1%	0.000	0.00
32	0.1%	0.000	0.00
33	0.0%	0.000	0.00
34	0.0%	0.000	0.00
35	0.0%	0.000	0.00
36	0.1%	0.000	0.00
37	0.1%	0.000	0.00
38	0.1%	0.000	0.00
39	0.0%	0.000	0.00

Test Instrument:Everfine HB-3A System

Manufacturer:Everfine

Type:220VT5E-28

Temperature:25deg

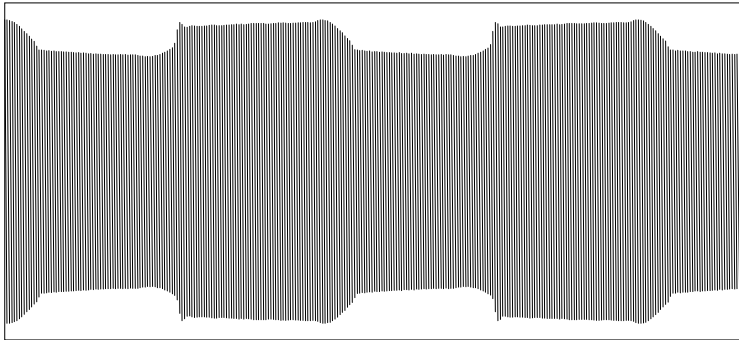
Operator: y m d

Number:1

Humidity:75%

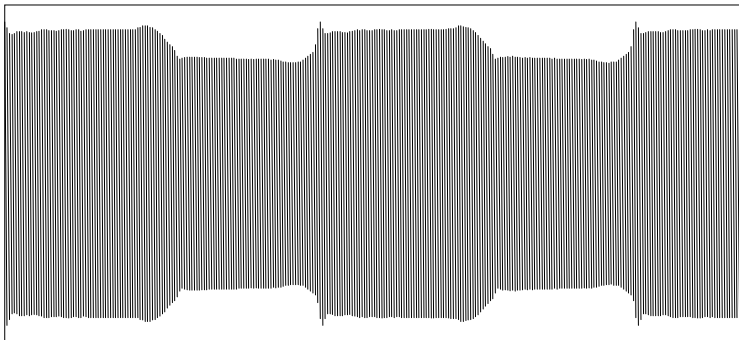
Inspector: y m d

Steady State Characteristics



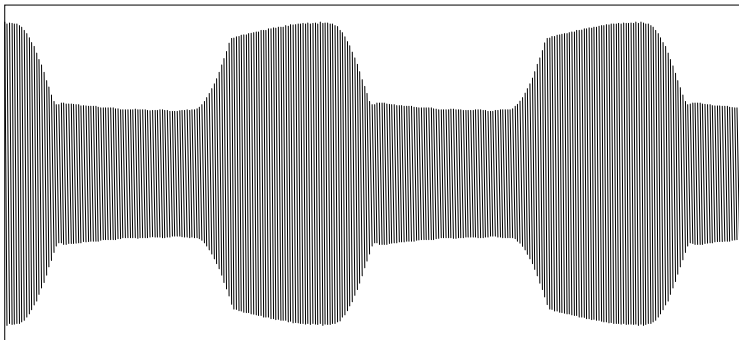
Lamp Voltage

Vlrms : 180.6 (V)
Vlp : 284.8 (V)
Vlcf : 1.58
Vlhfrms: 204.5 (V)
Vlcfhf : 1.39



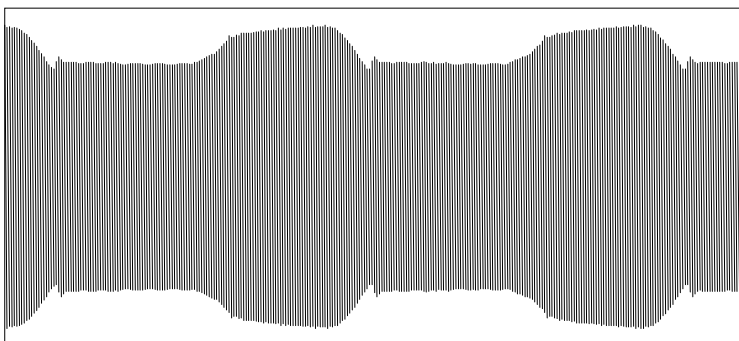
Filament Current

Afrms : 0.103 (A)
Afp : 0.186 (A)
Afcf : 1.81
Afrmshf: 0.117 (A)
Afcfhf : 1.59



Lamp Current

Alrms : 0.141 (A)
Alp : 0.283 (A)
Alcf : 2.00
Alrmshf: 0.201 (A)
Alcfhf : 1.40
Pout : 22.6 (W)



Cathode Current

Akrms : 0.152 (A)
Akp : 0.263 (A)
Akcf : 1.73
Akrmshf: 0.180 (A)
Akcfhf : 1.46
Freq : 35.68 (kHz)

Test Instrument: Everfine HB-3A System

Manufacturer: Everfine

Type: 220VT5E-28

Temperature: 25deg

Operator:

Number: 1

Humidity: 75%

Inspector:

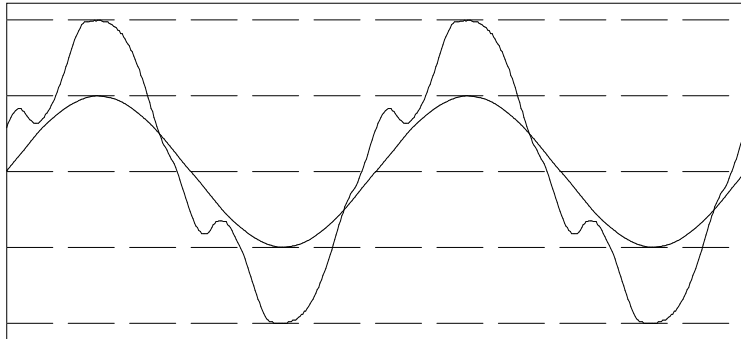
 y m d

 y m d

Electronic Ballast Test Report

Input & Output Characteristics Test Report

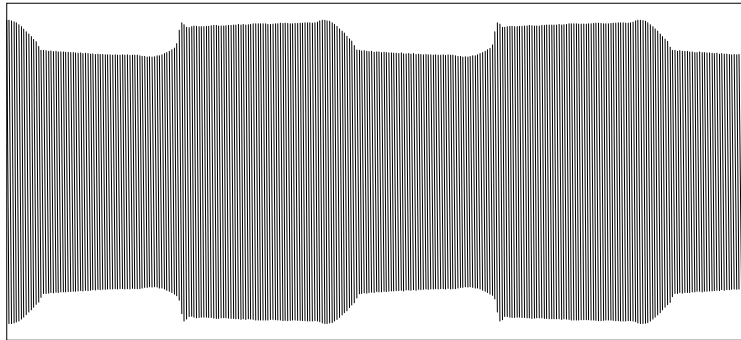
I. Input Characteristics



Vrms: 219.5 (V)
Vp : 312.7 (V)
Vthd: 0.8 % (IEC)
Arms: 0.125 (A)
Ap : 0.194 (A)
Athd: 21.7 % (IEC)
Power: 26.72 (W)
PF : 0.972
Freq: 50.54 (Hz)

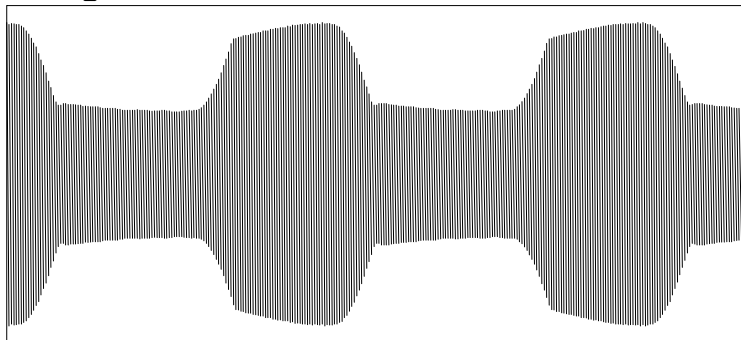
II. Output Characteristics

Lamp Voltage Wave



Vlrms: 180.6 (V)
Alrms: 0.141 (A)
Afrms: 0.103 (A)
Akrms: 0.152 (A)
Pout : 22.6 (W)

Lamp Current Wave



Freq: 35.680 (kHz)
Alcf: 2.00

Test Instrument: Everfine HB-3A System

Manufacturer: Everfine

Type: 220VT5E-28

Temperature: 25deg

Operator: y m d

Number: 1

Humidity: 75%

Inspector: y m d