



Specification

Constant Current LED Driver

Model: GS-35C-56B

Spec: 35W LED Driver

Version: V1.0

DISTECSA S.A.S.
CL 55 CR 46 46, ITAGUI, Colombia

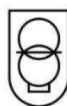
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Product Feature

- ▶ Isolation scheme, High PF, Low THD
- ▶ Constant current output
- ▶ Low ripple current
- ▶ Efficiency > 89%
- ▶ Isolated Dimming: 0/1-10V, PWM, Resistance
- ▶ Lightning Protection: DM 4KV
- ▶ Warranty for 5 years
- ▶ Protections: SCP, OCP, OVP and OTP
- ▶ Suffix "***", B for dimming, H for auxiliary power 12V



SELV



Input Characteristics

| Item | Min. | Typ. | Max. | Remark |
|---------------------|--------|-------|--------|------------------------------|
| Input Voltage Range | 100Vac | | 277Vac | |
| Frequency | 47Hz | 50/60 | 63Hz | |
| Input Current | | 0.42A | | 100Vac, full load |
| Power Factor | | 0.99 | | 120Vac/50Hz, full load |
| | 0.92 | | | 100-277Vzc/50Hz, 70-100%load |
| THD | | 6% | | 230Vac/50Hz, full load |
| | | 9% | | 100-277Vac/50Hz, 100%load |
| Input Power | | | 42W | |



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Output Characteristics

| Item | Min. | Typ. | Max. | Remark |
|----------------------|------|------|------|----------------------|
| Rated Output Current | | 0.9A | | |
| Output Voltage Range | 36V | | 56V | |
| Open-Circuit Voltage | | 60V | | |
| Rated Output Power | | | 35W | |
| Efficiency | | 88% | | 120Vac@42Vdc |
| | | 89% | | 230Vac@42Vdc |
| Current Accuracy | -5% | | 5% | |
| Run-up Time | | ≤ 1S | | 120Vac@42Vdc |
| Line Regulation | | < 3% | | Rated output voltage |
| Load Regulation | | < 3% | | Rated input voltage |



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Other Performance

| | Item | Min. | Typ. | Max. |
|-----------------------------|------------------|-------|------|-------|
| 0-10V Dimming (Optional) | Max Voltage | 0V | | 12V |
| | DIM Range | 10% | | 100% |
| | DIM Voltage | 1V | | 10V |
| PWM Dimming (Optional) | PWM High Level | 3.0V | | 10.2V |
| | PWM Low Level | 0V | | 0.7V |
| | PWM Frequency | 400Hz | | 10KHz |
| | PWM Duty | 10% | | 100% |
| Resistor Dimming (Optional) | DIM Resistance | 2KΩ | | 20KΩ |
| | DIM Range | 10% | | 100% |
| Dim to off | Turn off Voltage | 3% | 5% | 7% |
| | Turn on Voltage | 5% | 7% | 9% |





Environmental Requirements

| Item | Min. | Typ. | Max. | Remark |
|--------------------|-------|--------|--------|-----------------|
| Tc | -40°C | 25°C | 60°C | |
| Life Time | | 50000H | | 100%load@Tc75°C |
| Tst | -40°C | 25°C | 80°C | |
| Operating Humidity | 10%RH | | 90%RH | Non-condensing |
| Store Humidity | 5%RH | | 95%RH | |
| Pressure | 70KPa | | 106KPa | |

Safety&EMC

| Item | | Standard | Remark |
|-----------------------|-------|--------------------------------|-----------------------|
| Safety Standard | | UL8750 | |
| | | EN61347-2-13: 2014 | |
| | | EN61347-1:2008+A1:2011+A2:2013 | |
| Hi-Pot | (I/O) | 1600Vac | Reinforced insulation |
| | (I/S) | 1600Vac | Basic insulation |
| | (O/S) | | |
| Insulation Resistance | | | |
| CE&RE | | EN55015:2013+A1:2015 | |
| Surge | | EN61000-4-5 | L-N: 4KV |

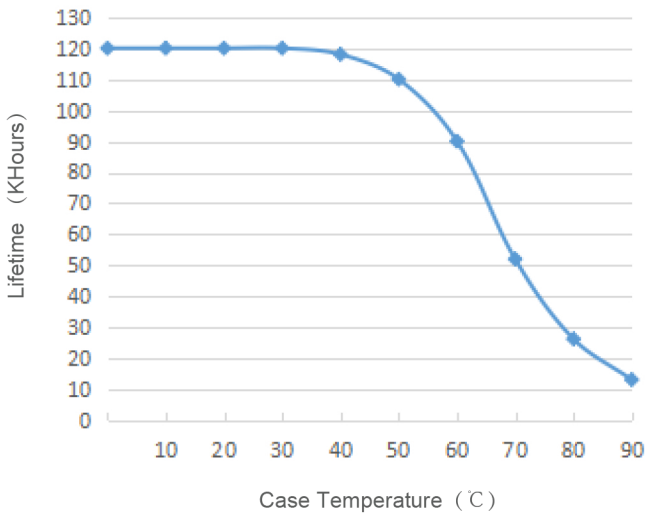


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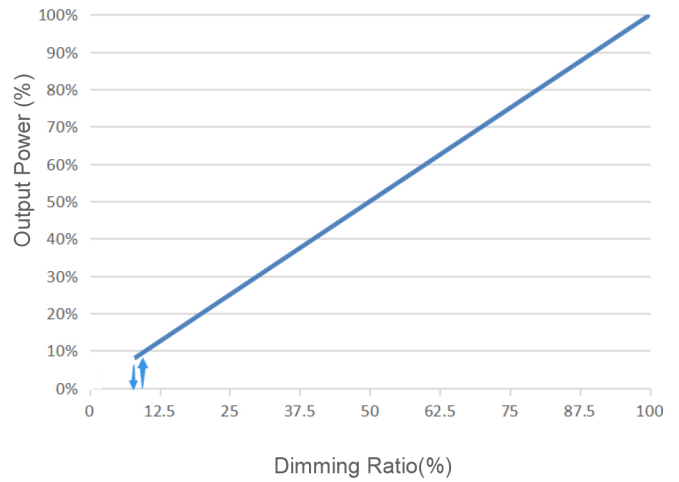


Characteristic Curve

Lifetime(Khours) VS Case Temperature



Output Power VS Dimming



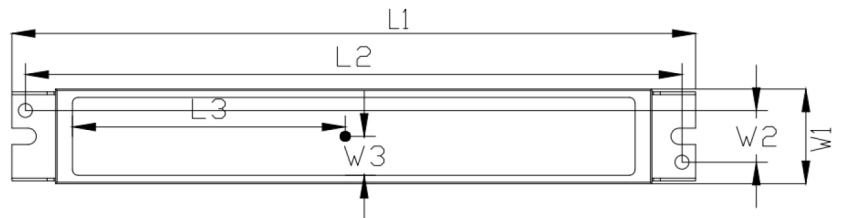
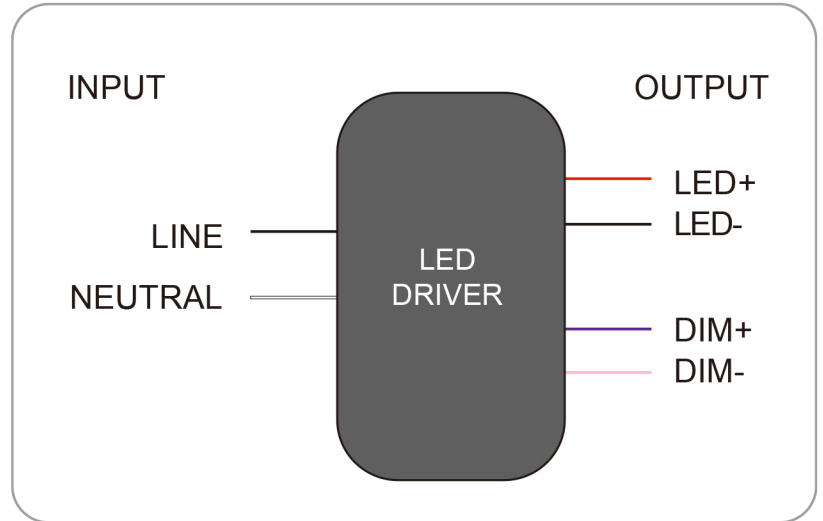
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2D Structure

| Name Description | Standard Code | mm(In.) |
|----------------------|---------------|-------------|
| Overall Length | L1 | 243(9.57) |
| Overall Width | W1 | 34(1.34) |
| Mounting Hole Length | L2 | 233.4(9.19) |
| Mounting Hole Width | W2 | 21(0.83) |
| TC Point Length | L3 | 97(3.82) |
| TC Point Width | W3 | 13(0.51) |

Wiring Diagram



Structure

| Item | Typ. | Remark |
|-------------------|--------------------------------------|--------|
| Weight | 400g | |
| Size | L243mm*W34mm*H27mm | L*W*H |
| Input Wire | 1015/2*18AWG/L: Black/N: White | |
| Output Wire | 1015/2*18AWG/V+: Red/V-: Black | |
| Dim Wire/AUX Wire | 1569/2*22AWG/DIM+: Purple/DIM-: Pink | |