LED-35W Series

Narrow cross-section fits T5-style ballast channels
Off-line Switch Mode LED Drivers
Constant Current or Constant Voltage, with Isolation
Black Magic Thermal Advantage™ Plastic Housing

Electrical Specifications

Input Voltage Range:	**100-277 Vac Nom. (90-305 V Min/Max)**
Input Over-Voltage:	**Can endure 320Vac for 48 Hrs, 350Vac for 2 Hrs**
Frequency:	**50/60 Hz Nom. (47-63 Hz Min/Max)**
Power Factor:	**>0.90 @ >70% load, 120-277Vac**
Inrush Current:	**<10.0 Amps @ 230 Vac, cold start 25ºC**
Input Current:	**0.37 A @ 120Vac, full load**
Maximum Power:	**35W**
Current Regulation:	**± 2% Over input line variation**
Load Regulation:	**± 4%**
THD:	**≤ 20% @ >70% load, 120-277Vac**
Leakage Current:	**400 µA Typical**
Start Up Time:	**<1S full output**
Hold Up Time:	**Half Cycle**
Protection:	**Output Over-Voltage, Output Over-Current, Short Circuit with auto-recovery, transient**

Environmental Specifications

Minimum Starting Temp:	**-30ºC**
Maximum Case Temp.	**90°C**
Storage Temperature:	**-40ºC to +85ºC**
Humidity:	**5% to 95%**
Cooling:	**Convection**
Vibration Frequency:	**5 to 55 Hz/2g, 30 minutes**
Sound Rating:	**Class A**
MTBF:	**482,000 Hours @ full load and 40ºC ambient conditions per MIL-217F Notice 2**
EMC:	**FCC 47CFR Part 15 Class B compliant**
Impact Resistance:	**1g/s**
Weight:	**8.8 oz (250 grams) typical**

- Total Power: 35 Watts
- Input Voltage: 100-277 Vac Nom.
- UL Dry & Damp Location Rated
- IP66 & NEMA4
- Fully Encapsulated
- High Power Factor
- Designed to be DLC & Energy Star Compliant

Constant Current - Product Specifications

Model Number	Output Current *(mA ±4%)*	Output Voltage Range *(Vdc)*	Max. Output Power *(W)*	Typical Efficiency
LED35W-100-C0350-XX	350	34-100	35	86%
LED35W-054-C0700-XX	700	18-54	35	86%
LED35W-036-C1050-XX	1050	18-36	35	85%
LED35W-028-C1250-XX	1250	14-28	35	84%

-XX indicates dimming options are available. See options below. Blank = fixed current output

Constant Voltage - Product Specifications

Model Number	Output Current Range *(mA)*	Output Voltage *(Vdc ±5%)*	Max. Output Power *(W)*	Typical Efficiency
LED35W-028	313-1250	28	35	84%
LED35W-036	263-1050	36	35	85%
LED35W-054	175-700	54	35	86%
LED35W-100	88-350	100	35	86%

Class 2: US/Canada | US Only

c UL us PENDING CE FC RoHS IP66

Ordering Options:

-D: 0-10V & Resistance dimmable version comes with an extra two wires +Purple/-Gray on the output side. "-D" version is compatible with most quality 0-10V wall dimmers. See page 3 for additional specifications.

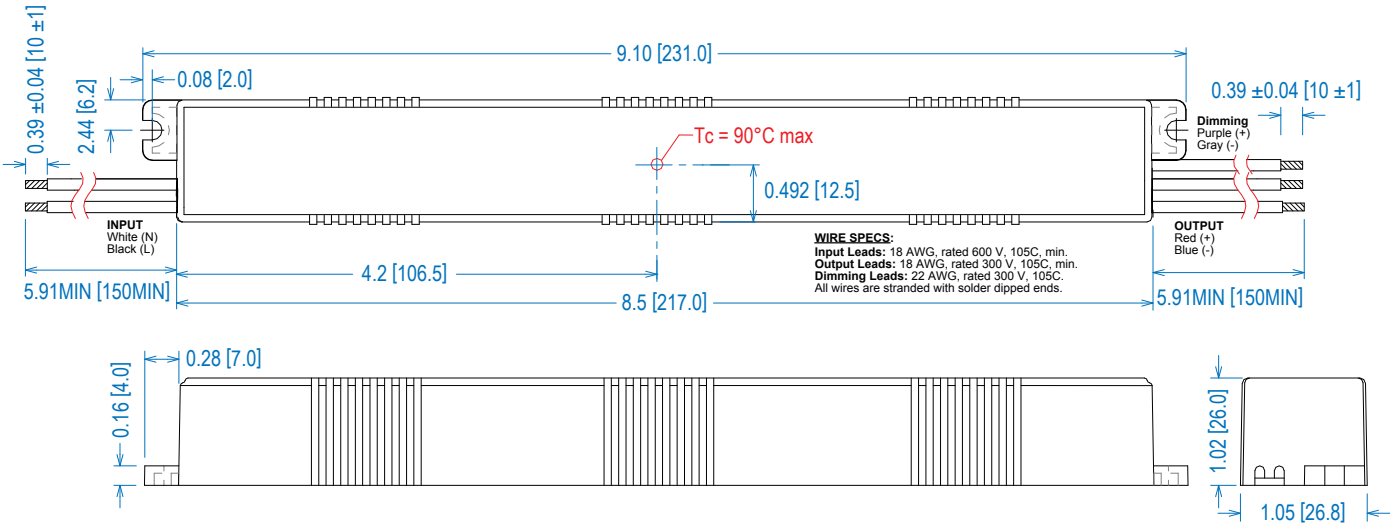
-PD: PWM Dimmable version comes with an extra two wires +Purple/-Gray on the output side. "-PD" version is PWM Dimmable via a positive 10% to 100% Duty Cycle, 200Hz to 1KHz, 0-10V Pulse. See page 4 for additional specifications.

Note:
LED drivers are designed and intended to operate LED loads only. Non-LED loading may be outside the specified design limits of our LED drivers, and therefore cannot be covered by any warranty. If you desire to use our LED drivers to operate non-LED loads please contact us to discuss compatibility.

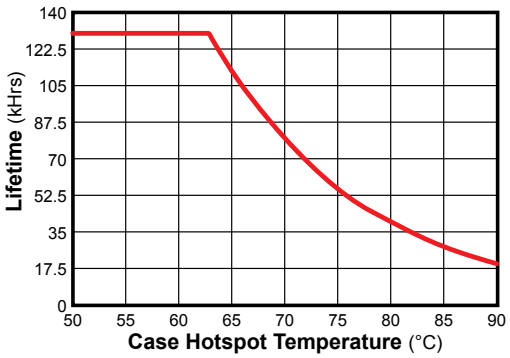
Specifications subject to change without notice.

Rev 8-25-15

Dimensions - mm



Lifetime / Case Temperature



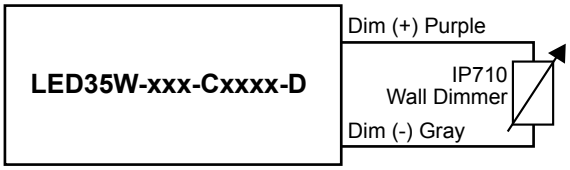
Note:
Life calculations are based on reliability with confidence using a 90% confidence level and <5% failure rate. At a confidence level of 90% it is expected that <5% of the parts will fail at the rated life provided. (Failure is defined as a driver drifting outside specification, rather than fail to operate)

Safety and EMC Compliance	
UL/CUL	UL8750, CSA-C22.2
C E	EN61347
EN61000-3-2	Harmonic current emissions
EN61000-3-3	Voltage fluctuations & flicker, Class C

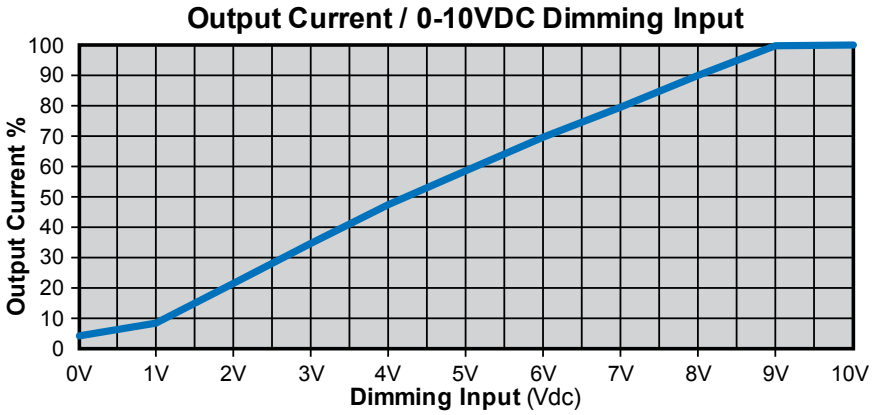
"-D" Option: 0-10VDC and Resistance Dimming

Parameters	Minimum	Typical	Maximum
Source Current out of 0-10V Purple Wire	0 mA	—	0.5 mA
Absolute Voltage Range on 0-10V (+) Purple Wire	-2.0 V	—	+15 V

Typical Dimming Circuit



(Dimmer must be current-sink type control)



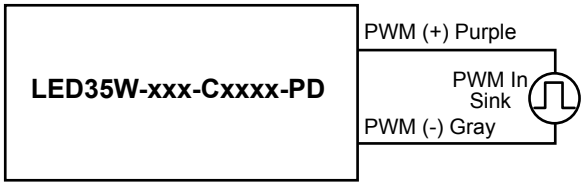
Notes:

1. 0-10V dimmable version comes with an extra two wires +Purple/-Gray on the output side.
2. Compatible with most 0-10V Wall Slide dimmers and direct 0-10V analog signal. Recommended dimmer is Leviton IP710 or equivalent
3. 0-10V dimmable version output will be ≤ 10% @ 0-1.0V
4. 0-10V dimmable version output will be 100% with Purple/Gray open and minimum with Purple/Gray Shorted.

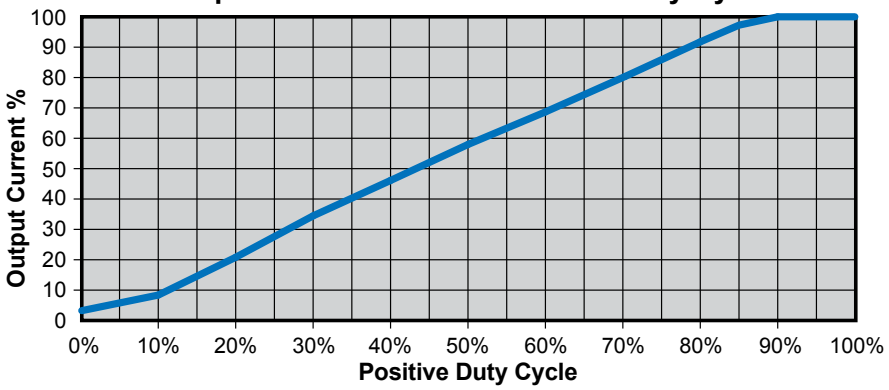
"-PD" Option: PWM Dimming

Parameters	Minimum	Typical	Maximum
Absolute Maximum Voltage Range on PWM Input (Purple Wire)	-2.0 V	10 V	+15 V
Input LOW Level Voltage Range (Purple Wire)	-2.0	0 V	+5.5 V
Input HIGH Level Voltage Range (Purple Wire)	+9.0	10 V	+15 V
Current into PWM Input (Purple Wire)	0 mA	—	1.2 mA
Source Current out of PWM Input (Purple Wire)	0 mA	—	0.5 mA
PWM Input Signal Frequency	500 Hz	—	1500 Hz
PWM Input Signal Positive Duty Cycle	0%	10-90%	100%

PWM Positive Dimming Typical Circuit



Output Current / 1.0kHz Positive Duty Cycle



Notes:

1. PWM Dimmable version comes with an extra 2 wires +Purple/-Gray on the output side.
2. Below 10% Duty cycle proper dimming operation is not assured. Unit is not intended to dim below 5% at 0% Duty Cycle.
3. PWM dimmable version output will be 100% with Purple/Gray open and minimum with Purple/Gray Shorted.