

SSL Solutions Faster Than The Speed Of Light®

LED-35W Series

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

Total Power: 35 Watts Input Voltage: 100-277Vac Nom. Outputs: Single from 14-100Vdc Dry, Damp or Wet Locations, IP66, NEMA4 **Fully Encapsulated High Power Factor** Designed to be DLC & Energy Star Compliant

Electrical Specifications

Input Voltage Range: 100-277 Vac Nom. (90-305 V Min/Max) 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 25°C

Input Current: 0.37 A @ 120Vac, full load

Maximum Power:

Current Regulation: ± 2% Over input line variation

Load Regulation:

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

-30°C to +60°C Operating Temperature:

Maximum Case Temp.

Storage Temperature: -40°C to +85°C 5% to 95% **Humidity:** Cooling: Convection

Vibration Frequency: 5 to 55 Hz/2a, 30 minutes

Sound Rating:

MTBF: 482,000 Hours @ full load and 40°C ambient conditions per MIL-217F Notice 2 $\,$

EMC: FCC 47CFR Part 15 Class B compliant

Impact Resistance:

Weight: 8.8 oz (250 grams) typical



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-100	88-350	100	35	86%
LED35W-054	175-700	54	35	86%
LED35W-036	263-1050	36	35	85%
LED35W-028	313-1250	28	35	84%

Class 2: US/Canada US Only









Ordering Options:

- 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

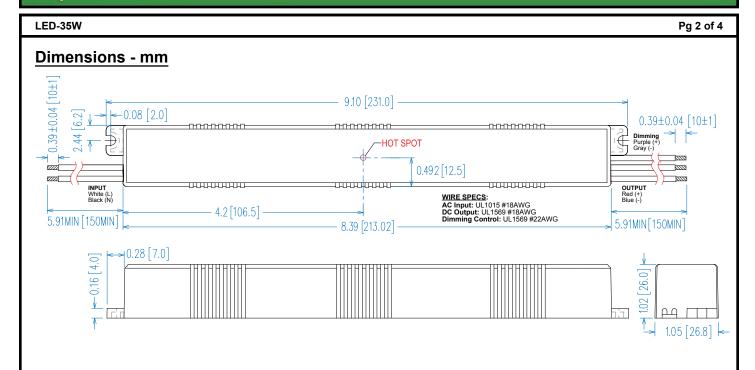
LED drivers are designed and intended to operate LED loads only. Non-LED loading may be outside the specified design limits of our LED driver, and therefore cannot covered by any warranty. If you desire to use our LED drivers to operate non-LED loads please contact us to discuss compatibility.

Specifications subject to change without notice.

8-22-13



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



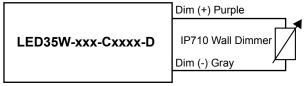
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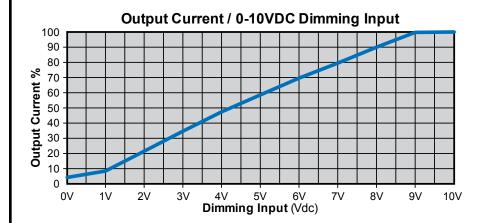
"-D" Option: 0-10VDC and Resistance Dimming

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. $0-10\dot{V}$ dimmable version output will be $\leq 10\%$ @ 0-1.0V
- 4. 0-10V dimmable version output will be 100% with Purple/Gray open and minimum with Purple/Gray Shorted.



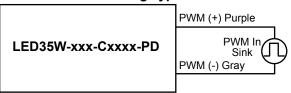
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"-PD" Option: PWM Dimming

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







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.