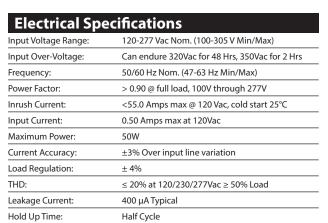


LED-50W CC Series

Switch Mode LED Driver





Protections	
Over-voltage:	No Damage, Auto Recovery after fault is removed
Over-current:	Constant Current Limiting Circuit
Short Circuit:	No Damage, Auto Recovery after fault is removed

Environmenta	Specifications
Max Case Life Temp: (5 year warranty)	65°C
Maximum Case Temp (UL):	90℃
Minimum Starting Temp:	-40°C
Storage Temperature:	-40°C to +85°C
Humidity:	5% to 95%
Cooling:	Convection
Vibration Frequency:	5 to 55 Hz/2g, 30 minutes
Sound Rating:	Class A
Impact Resistance:	1g/s
MTBF:	474,000 Hours @ full load & 40°C ambient conditions per MIL-217F Notice 2
EMC:	FCC 47CFR Part 15 Class B @ 120Vac, Class A @ 277Vac

• Total Power: 50 Watts

Input Voltage: 120-277 Vac Nom.UL Dry & Damp Location Rated

• IP66

- High Power Factor
- · Constant Current, Dimming with Isolation
- Black Magic Thermal Advantage™ Plastic Housing
- 0-10V Linear Dimming 1% to 100%
- Dims to Zero @ ≤1.0V, Standby Power ≤0.5W

Dimming Option:

0-10V & Resistance dimmable models include an extra two wires +Violet/-Pink on the output side. "-D" Compatible with most quality 0-10V wall dimmers. See page 3 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.





Constant Current Models

Model	Output Current (mA ±4%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Typical Efficiency
LED50W-142-C0350-XX	350	71-142	49.7	89%
LED50W-111-C0450-XX	450	55-111	49.9	89%
LED50W-072-C0530-XX	530	36-72	38.1	88%
LED50W-072-C0700-XX	700	36-72	50	88%
LED50W-060-C0830-XX	830	30-60	49.8	88%
LED50W-048-C1050-XX	1050	24-48	50	88%
LED50W-042-C1190-XX	1190	21-42	50	87%
LED50W-040-C1250-XX	1250	20-40	50	87%
LED50W-036-C1400-XX	1400	18-36	50	87%
LED50W-029-C1750-XX	1750	14-29	50	87%
LED50W-024-C2100-XX	2100	12-24	50	87%
LED50W-100-C0500-D	500	50-100	50	89%

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

Safety Cert.	Standard
UL/CUL	UL8750
CSA	22.2
CE	EN61347
EMC Standard	Notes
EN55015	
EN61000-3-2	> 80% Rated Power
EN61000-3-3	Class C
FCC, 47CFR Part 15	Class B @ 120Vac, Class A @ 277Vac
EN6100-4-5	2KV L-N, 8/20 μsec Surge Protection



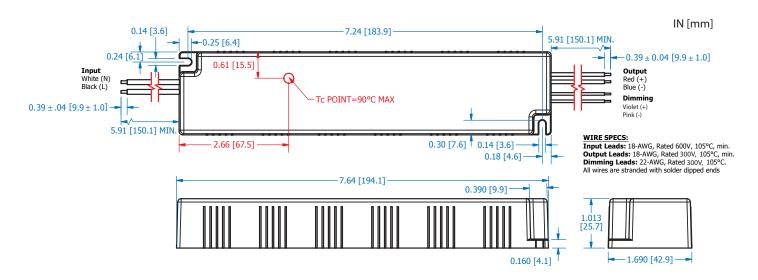


LED-50W CC Series

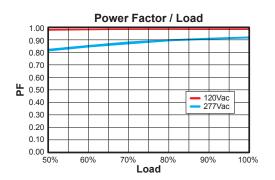


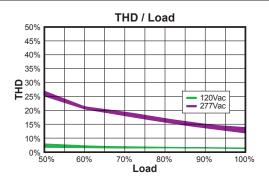


Dimensions



Power Characteristics

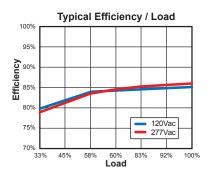




(Full Load @ 120Vac) 135 125 115 105 Lifetime (kHrs) 95 85 75 65 55 45 35 25 15 5 0 65 85

Case Hotspot Temperature (°C)

Lifetime / Case Temperature



Note: The area under the life-temperature curve represents where the driver has highly reliable operation within specification. Driver performance may drift out of published specifications as the hours of operation exceed the curve at a given temperature. Higher operating temperatures increase the chances of a failure to function. Other electrical, mechanical and environmental factors affect driver lifetime but are not represented in this calculation.

UL Conditions of Acceptability: See website for additional information





LED-50W CC Series





"-D" Option: 0-10VDC and Resistance Dimming, Dims to Zero at < 1.0V

Parameters	Minimum	Typical	Maximum
Source Current out of 0-10V Violet Wire	0 mA	_	1mA
AbsoluteVoltage Range on 0-10V (+) Violet Wire	-2.0V	_	+15V

Notes:

- 1. -D 0-10V dimmable version comes with an extra two wires +Violet/-Pink on the output side.
- 2. -D version is compatible with most 0-10V Wall Slide dimmers and direct 0-10V analog signal. Recommended wall slide dimmer is Leviton IP710 or equivalent
- 3. -D 0-1 0V dimmable version is Dim to Zero @ \sim 1.00V and 1 % Min Dim.
- 4. -D 0-10V dimmable version output will be 100% with Violet/Pink open and minimum with Violet/Pink Shorted.
- 5. Dimming wires +Violet/-Pink must not touch any other wires or damage to LED Driver can occur.

-D 2-Wire Resistance Dimming Scheme Dim (+) Violet IP710 Wall Dimmer Dim (-) Pink

