

Rev 9-24-2021

LED-20W Series

Switch Mode LED Drivers



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 @ full load, 100V through 277V	
Inrush Current:	<15.0 Amps max @ 230 Vac, cold start 25°C	
Input Current:	0.25 Amps max at 120 Vac	
Efficiency:	85% typical at max load	
Maximum Power:	20W	
Line Regulation:	± 3%	
Load Regulation:	±4%	
THD:	≤ 20% @ ≥ 70% load 100-230V, ≥ 80% load 277V	
Leakage Current:	300 μA Typical	
Hold up Time:	Half Cycle	

Protections

Over-voltage	Output
Over-current	Output
Short Circuit	Auto Recovery

Environmental Specifications

Max Case Life Temp: (5 year warranty)	62°C
Maximum Case Temp (UL):	90°C
Minimum Starting Temp:	-30°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
MTBF:	488,000 Hours at full load and 40°C ambi- ent conditions per MIL-217F Notice 2
Weight:	5.8 oz (165 grams) typical

Total Power: 20 Watts

- Input Voltage: 100-277 Vac Nom.
- UL Dry & Damp Location Rated
- High Power Factor
- IP66 and NEMA4
- Constant Current & Constant Voltage with Isolation
- Black Magic Thermal Advantage[™] Plastic Housing
- UL Sign Components Manual (S.A.M. Models)

Dimming Option:

0-10V & Resistance dimmable models include an extra two wires +Purple/-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
LED20W-57-C0350-XX	350	28-57	20	84%
LED20W-48-C0350-XX	350	24-48	16.8	83%
LED20W-43-C0460-XX	460	21-43	20	83%
LED20W-40-C0500-XX	500	20-40	20	82%
LED20W-36-C0550-XX	550	18-36	20	82%
LED20W-28-C0700-XX	700	14-28	20	81%
LED20W-24-C0700-XX	700	12-24	16.8	81%
LED20W-24-C0830-XX	830	12-24	20	81%
LED20W-22-C0910-XX	910	11-22	20	81%
LED20W-18-C1100-XX	1100	9-18	20	80%
LED20W-15-C1330-XX	1330	8-15	20	80%
LED20W-13-C1540-XX	1540	7-13	20	79%
LED20W-12-C1660-XX	1660	6-12	20	78%

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

Constant Voltage Models

	Output Voltage	Output Current	Max. Output	Typical
Model	(Vdc ±5%)	Range (mA)	Power (W)	Efficiency
LED20W-12 •	12	415-1660	20	82%
LED20W-13	13	385-1540	20	82%
LED20W-15	15	333-1330	20	83%
LED20W-18	18	275-1100	20	83%
LED20W-22	22	228-910	20	84%
LED20W-24 •	24	208-830	20	84%
LED20W-28	28	175-700	20	84%
LED20W-36	36	138-550	20	85%
LED20W-40	40	125-500	20	85%
LED20W-43	43	115-460	20	85%
LED20W-48	48	88-350	16.8	85%
LED20W-57	57	88-350	20	85%

• Indicates S.A.M. Class 2: US/Canada

Safety Cert.	Standard
UL/CUL	UL8750
CSA	22.2
CE	EN61347
EMC Standard	Notes
EN61000-3-2	
EIN01000-3-2	
EN61000-3-2 EN61000-3-3	Class C

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Dimensions



Power Characteristics



UL Conditions of Acceptability

See website for additional information

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.



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

Parameters	Minimum	Typical	Maximum
Source Current out of 0-10V Purple Wire	0mA	_	2mA
Absolute Voltage Range on 0-10V (+) Purple Wire	-2.0 V	—	+15 V
Sink Current into 0-10V Purple Wire	0mA	_	1.2mA



Notes:

- 0-10V dimmable version comes with an extra two wires +Purple/-Pink on the output side.
 Compatible with most 0-10V Wall Slide dimmers and direct 0-10V analog signal. Recommended dimmer is Leviton IP710 or equivalent
- O-10V dimmable version output will be ≤ 10% @ 0-1.0V
 O-10V dimmable version output will be ≤ 10% @ 0-1.0V
 O-10V dimmable version output will be 100% with Purple/Pink open and minimum with Purple/Pink Shorted.
 For units manufactured before Date of January 1st 2022, the Dim(-) wire will be gray, not pink.