Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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Thomas Research Products

LED-40W Series

Fixed Output and Dimmable Switch Mode LED Drivers

Rev 8-24-2017

selectSYNC classic

E332160

IP66

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:	<20.0 Amps max @ 230 Vac, cold start 25ºC
Input Current:	0.40 Amps max
Maximum Power:	40W
Current Accuracy:	± 1% Over input line variation
Load Regulation:	± 3%
THD:	≤ 20% @ full load
Leakage Current:	400 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)*	66˚C
Maximum Case Temp (UL):	90ºC
Minimum Starting Temp:	-30ºC
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 at full load and 40ºC ambient conditions per MIL-217F Notice 2
EMC:	FCC 47CFR Part 15 Class B compliant

- Constant Current & Constant Voltage with Isolation
- Black Magic Thermal Advantage™ Plastic Housing
- UL Sign Components Manual (S.A.M. Models)

Dimming Option:

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

"-D3" 3-wire dimmable model dims 100% to 10%. Three extra wires included on the output side: Yellow/Purple/Gray. This model is suitable for potentiometer dimming. See page 3.

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 ±5%)*	Output Voltage Range *(Vdc)*	Max Output Power *(W)*	Max Efficiency
LED40W-114-C0350-XX	350	38-114	40	87%
LED40W-100-C0400-XX	400	33-100	40	87%
LED40W-089-C0450-XX	450	30-89	40	87%
LED40W-054-C0700-XX	700	18-54	37.8	86%
LED40W-048-C0830-XX	830	16-48	40	86%
LED40W-045-C0900-XX	900	15-45	40	86%
LED40W-040-C1000-XX	1000	13-40	40	85%
LED40W-036-C1100-XX	1100	12-36	40	86%
LED40W-030-C1300-XX	1300	10-30	39.0	86%
LED40W-030-C1400-XX	1400	10-30	42	`85%
LED40W-024-C1300-XX	1300	8-24	31.2	86%
LED40W-024-C1400-XX	1400	8-24	33.6	86%
LED40W-024-C1670-XX	1670	8-24	40	86%
LED40W-022-C1820-XX	1820	7-22	40	86%
LED40W-018-C2220-XX	2200	6-18	40	85%
LED40W-015-C2680-XX	2680	5-15	40	85%
LED40W-013-C3080-XX	3080	4-13	40	85%
LED40W-012-C3330-XX	3330	4-12	40	84%
LED40W-010-C4000-XX	4000	3-10	40	84%
LED40W-009-C4450-XX	4450	3-9	40	83%

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

Constant Voltage Models

Model	Output Voltage *(Vdc ±5%)*	Output Current Range *(mA)*	Max Output Power *(W)*	Max Efficiency
LED40W-009	9	1113-4450	40	83%
LED40W-010	10	1000-4000	40	84%
LED40W-012 •	12	833-3330	40	84%
LED40W-013	13	770-3080	40	85%
LED40W-015	15	670-2680	40	85%
LED40W-018	18	550-2200	40	85%
LED40W-022	22	455-1820	40	86%
LED40W-024 •	24	418-1670	40	86%
LED40W-030	30	350-1400	42	85%
LED40W-036	36	275-1100	40	86%
LED40W-040	40	250-100	40	85%
LED40W-045	45	225-900	40	86%
LED40W-048	48	208-830	40	86%
LED40W-054	54	175-700	40	86%
LED40W-089	89	113-450	40	87%
LED40W-100	100	100-400	40	87%
LED40W-114	114	88-350	40	87%

• Indicates S.A.M.

Class 2: US/Canada

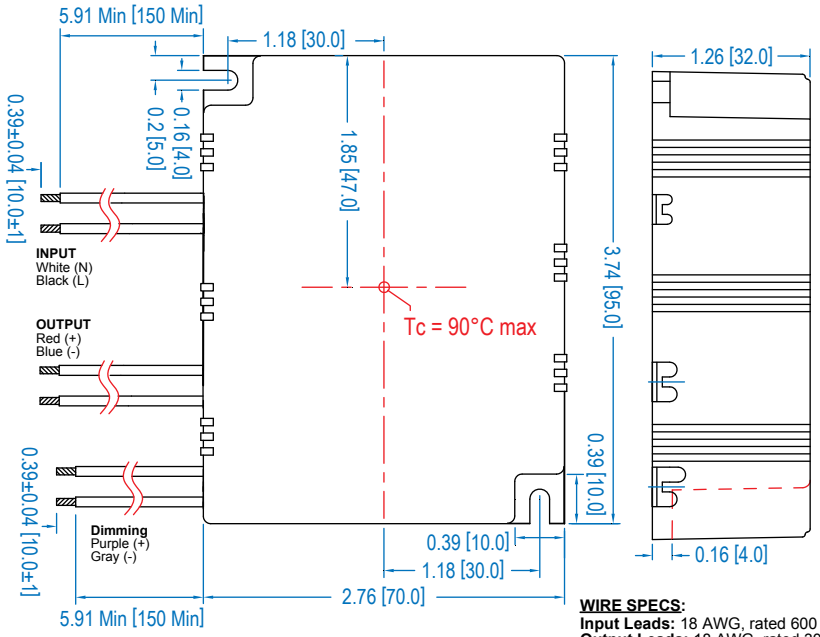
HUBBELL

LED-40W Series

Fixed Output and Dimmable Switch Mode LED Drivers

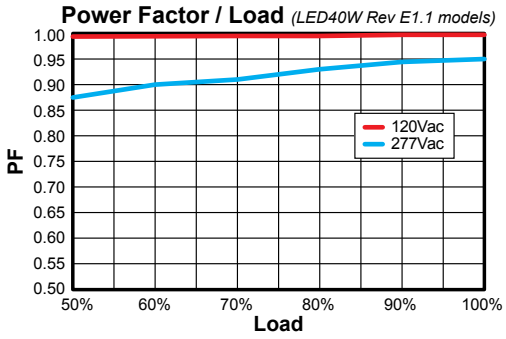
Dimensions

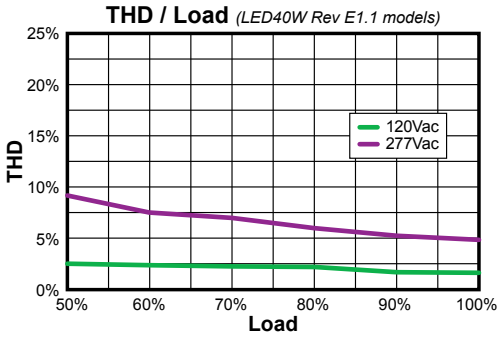
IN [mm]

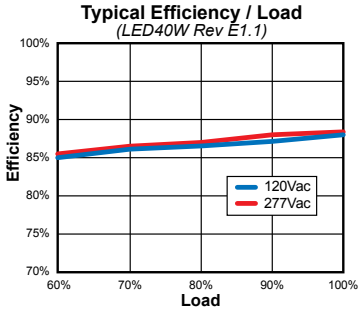


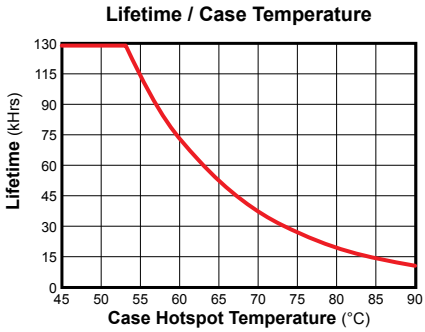
WIRE SPECS:
Input Leads: 18 AWG, rated 600 V, 105C, min.
Output Leads: 18 AWG, rated 300 V, 105C, min.
Dimming Leads: 22 AWG, rated 300 V, 105C.
All wires are stranded with solder dipped ends.

Power Characteristics









Safety Cert.	Standard
UL/CUL	UL8750
CSA	22.2
CE	EN61347
EMC Standard	**Notes**
EN61000-3-2	
EN61000-3-3	Class C
FCC, 47CFR Part 15	Class B
EN6100-4-5	2KV L-N, 8/20 μsec Surge Protection

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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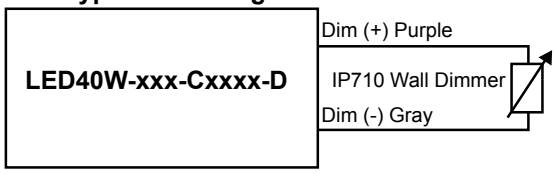
"-D" and "-D3" Option: 0-10VDC and Resistance Dimming

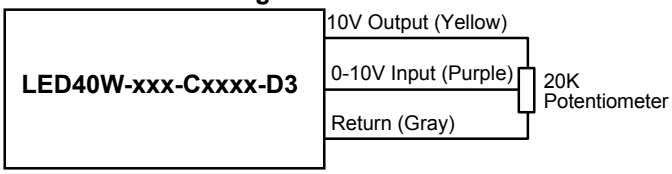
Parameters	Minimum	Typical	Maximum
Source Current out of 0-10V Purple Wire	0 mA	—-	2 mA
Absolute Voltage Range on 0-10V (+) Yellow Wire	-2.0 V	—-	+15 V
Source Current out of Aux Yellow Wire	—-	—-	10mA

"-D" Typical Dimming Circuit

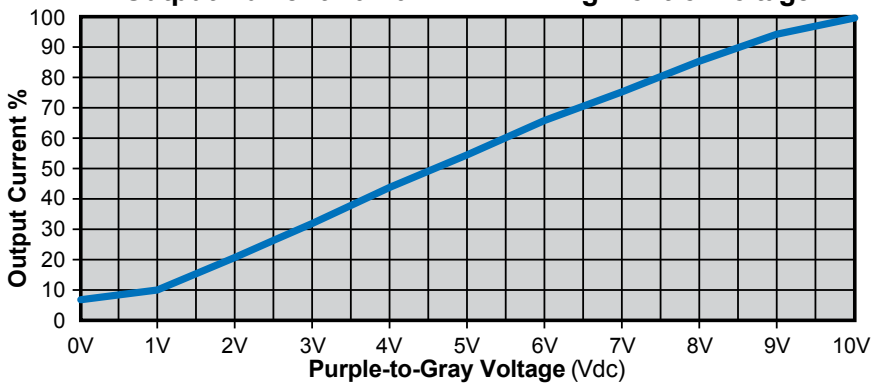


(Dimmer must be current-sink type control)

"-D3" 3-Wire Dimming Circuit



Output Current / 0-10VDC Dimming Control Voltage



Notes:

1. D dimmable version comes with an extra two wires on the output side: +Purple/-Gray.
2. Compatible with most 0-10V dimmers. Recommended dimmer is Leviton IP710 or equivalent.
3. D & D3 dimmable versions are not intended to dim below about 5% @ 0V or 10% @ 1.0V.
4. Output will be 100% with Purple/Gray open and minimum with Purple/Gray Shorted.