



# S040W-028C1400-L01-UN-D2

40W Programmable LED Driver



## Electrical Specifications

Maximum Power:	40W
Typical Efficiency:	83%
Input Voltage Range:	120-277 Vac ± 10%
Frequency:	50/60 Hz
Power Factor:	> 0.90 @ 80-100% load, 120-277Vac
Inrush Current:	25A @ 120V, 50A @ 277V
Input Current (Max):	0.48A @ 120Vac, 0.22A @ 277Vac
Output Dimming Range:	1-100% (14mA @ Max POC)
Load Regulation:	±2%
Line Regulation:	±1%
THD:	<20% @ 80-100% load, 120-277Vac
Start Up Time	<750ms @ 100% load
Output Ripple Current:	<3% Io

## Protections

Over-voltage:	Auto recovery
Over-current:	Auto recovery
Short Circuit:	Auto recovery
Over-temperature	Reduce Output To 50% @ Tc ≥ 90

## Environmental Specifications

Max Case Life Temp: (5 year warranty)	75°C
Maximum Case Temp (UL):	90°C
Minimum Starting Temp:	-20°C
Storage Temperature:	-40°C to +85°C
Humidity:	5% to 95%
Cooling:	Convection
Vibration Frequency:	TBD
Sound Rating:	Class A
Weight:	16 oz (454g)

- Constant Current, Dimmable
- Programmable Output Current (POC): 470mA to 1400mA
- Dim-to-off mode
- Flicker-free output
- Auxiliary output: 12Vdc, 200mA max
- 0-10V dimming, down to 1% at max POC
- UL Dry & Damp Location Rated, Class 2 output
- UL Class P
- UL Type HL for hazardous locations
- NFC Programming with universal NFC Reader for flexible and precise tuning
- Narrow cross-section fits T5-style ballast channels
- Metal housing
- 5 year warranty\*

\* For extended warranty options beyond 5 yrs., contact factory.



Part	Model	Adj. Current Out (mA ±5%)	Voltage Out (Vdc)	Max Power (W)	Wire End
93057521	S040W-028C1400-L01-UN-D2	470-1400	14-28.5	40	

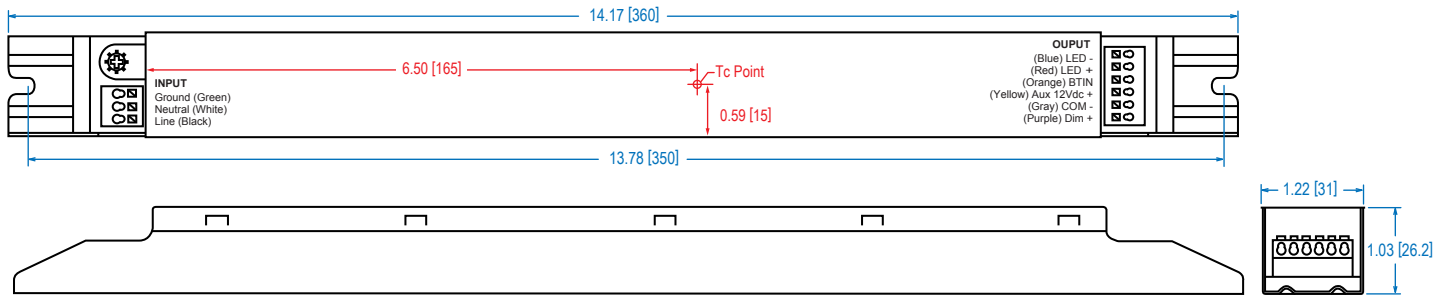
Class 2: US/Canada

Safety Cert.	Standard
UL/CUL	UL8750, UL1310 for UL Class 2 & CAN/CSA C22.2 No. 250.13, UL Class P, UL Type HL
CE	EN61347-1, EN61347-2-13
EMC Standard	Notes
FCC, 47CFR Part 15	ANSI C63.4:2009 (120V input meets Class B, 277V input meets Class A)
EN 61000-3-2	Harmonic Current Emissions Class C
EN 61000-4-5	Part 4-5: Surge Immunity test, 2.5 kV L-N, L-FG & N-FG



**Dimensions**

IN [mm]



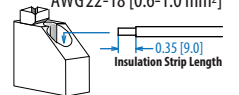
Case must be grounded in end-use application

**Remote Mounting:**

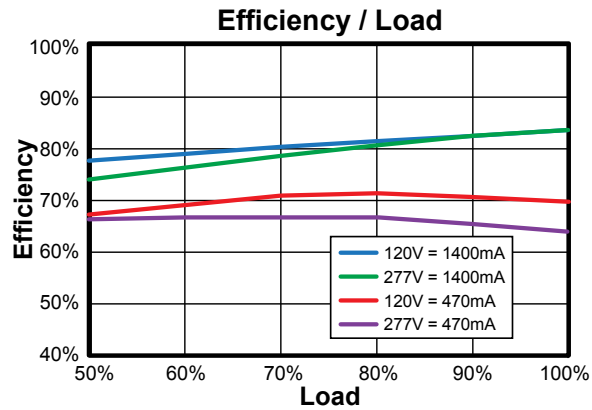
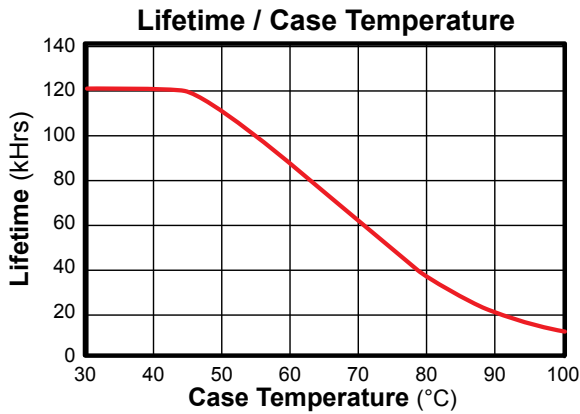
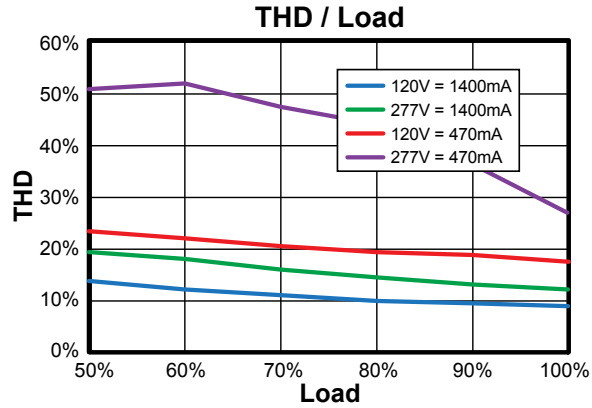
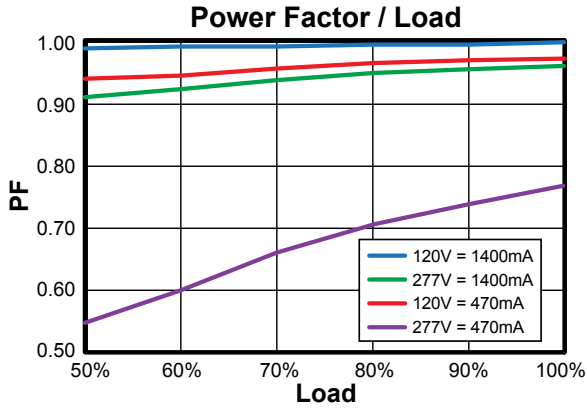
Max Distance 26ft. using #18 AWG

**PUSH IN CONNECTORS**

**Wire Gauge:** Solid Copper  
AWG 22-18 [0.6-1.0 mm<sup>2</sup>]



### Power Characteristics

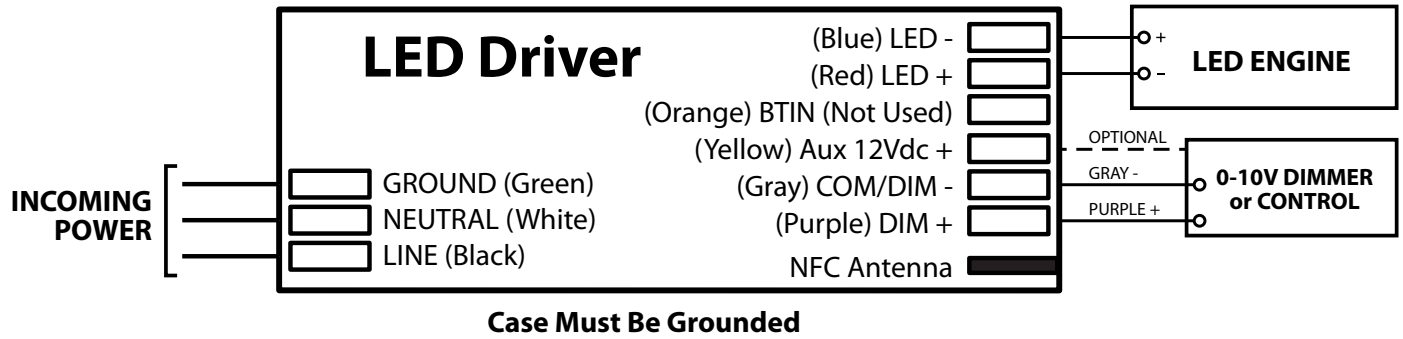


### Parameter Defaults

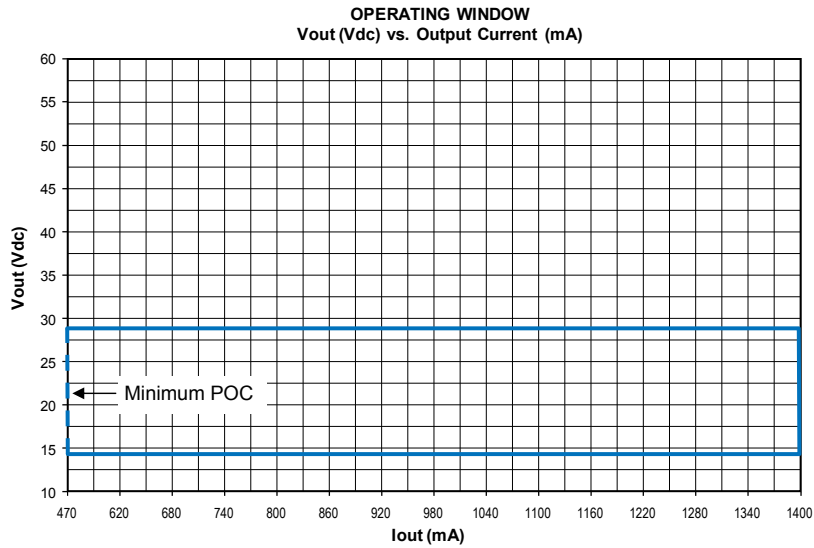
Parameter	Default Setting	Setting Range	Increment
Output Current (mA)	1400	470 - 1400	1

**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.

**Wiring**



**Power Operating Window**



**Labeling Programmable Drivers**

It is highly recommended that the drivers be labeled with information traceable to the programmed current.  
***This information is critical to answering any field questions from the contractor or end user.***

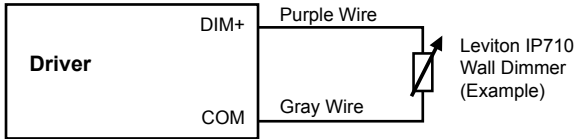
**Programming Guide**

Refer to the *SelectSYNC* Programming Software User's Manual.

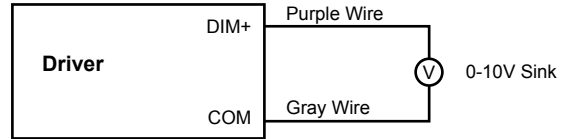
### Dimming: 0-10Vdc

Parameters	Minimum	Typical	Maximum
Source Current out of 0-10V Purple Wire	0mA	---	2mA
Absolute Voltage Range on 0-10V (+) Purple Wire	-60V	---	+15V

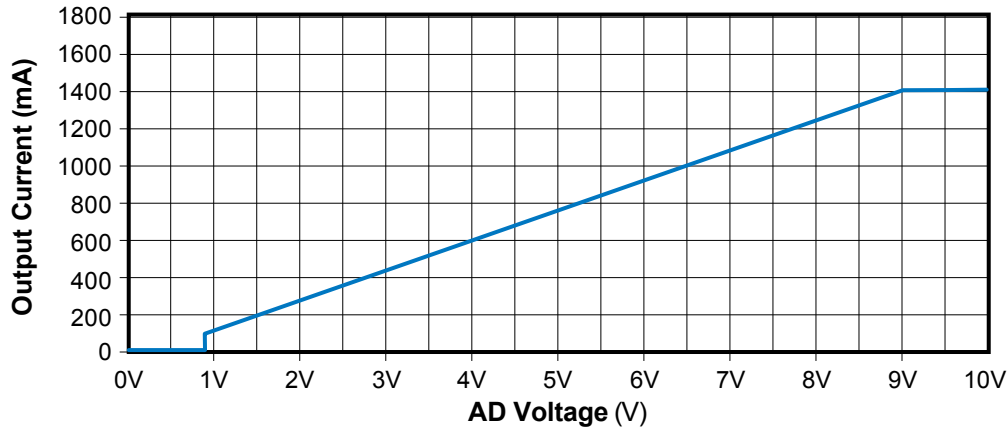
**Typical Dimming Circuit: 2-Wire Resistance**



**Typical Dimming Circuit: 2-Wire 0-10V Analog**



**Operating Current Behavior by AD Voltage**



**0-10V Dimming Notes:**

1. Part comes with two dimming input connectors +Purple/-Gray on the output side.
2. Part is compatible with most 0-10V Wall Slide dimmers and 0-10V dimming.
3. Output current will be 1% when  $V_{dim}=1.0V$ .
4. Output current will be 0% (off) when  $V_{dim} < 0.85V_{dc}$ .
5. Output will be 100% with Purple/Gray open and 0% with Purple/Gray Shorted.