



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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# S030W-052C1050-L03-UN-D2

30W Programmable Driver



## Electrical Specifications

Maximum Power:	30W
Typical Efficiency:	85%
Input Voltage Range:	120-277 Vac ± 10%
Frequency:	50/60 Hz
Power Factor:	> 0.90 @ 80-100% load, 120-277Vac
Inrush Current:	22A @ 120V, 51A @ 277V
Input Current (Max):	0.37A @ 120Vac, 0.19 @ 277Vac
Output Dimming Range:	1-100% (10mA @ Max POC)
Load Regulation:	5%
THD:	<20% @ 80-100% load, 120-277Vac
Start Up Time	<1,000ms @ 100% load
Output Ripple Current:	156kHz, meets CEC Title 24, flicker-free

## Protections

Over-voltage:	Latch-off
Over-current:	Auto recovery
Short Circuit:	Latch-off
Over-temperature:	Reduce output to 10% @ Tc ≥ 100°C

## Environmental Specifications

Max Case Life Temp (5yr Warranty):	75°C
Maximum Case Temp (UL):	80°C
Minimum Starting Temp:	-30°C
Storage Temperature:	-30°C to +85°C
Humidity:	10% to 90%
Cooling:	Convection
Vibration Frequency:	3 Axis 10-150Hz, 2g
Sound Rating:	Class A
Weight:	12.8 oz (362.8 g)



- Constant Current, Dimmable
- Programmable Output Current (POC): 150mA to 1050mA
- Dim-to-off mode
- Flicker-free output
- Auxiliary output: 12Vdc, 100mA max
- 0-10V dimming, down to 1% at max POC
- UL Dry & Damp Location Rated, Class 2 output
- Class P
- NFC Programming with universal NFC reader for flexible and precise tuning
- Narrow cross-section fits T5-style ballast channels
- Metal housing
- 5 year warranty\*

Part	Model	Adj. Current Out (mA ±5%)	Voltage Out (Vdc)	Max Power (W)	Wire Entry
93057524	S030W-052C1050-L03-UN-D2	150-1050	20-52	30	Ends

Class 2: US/Canada

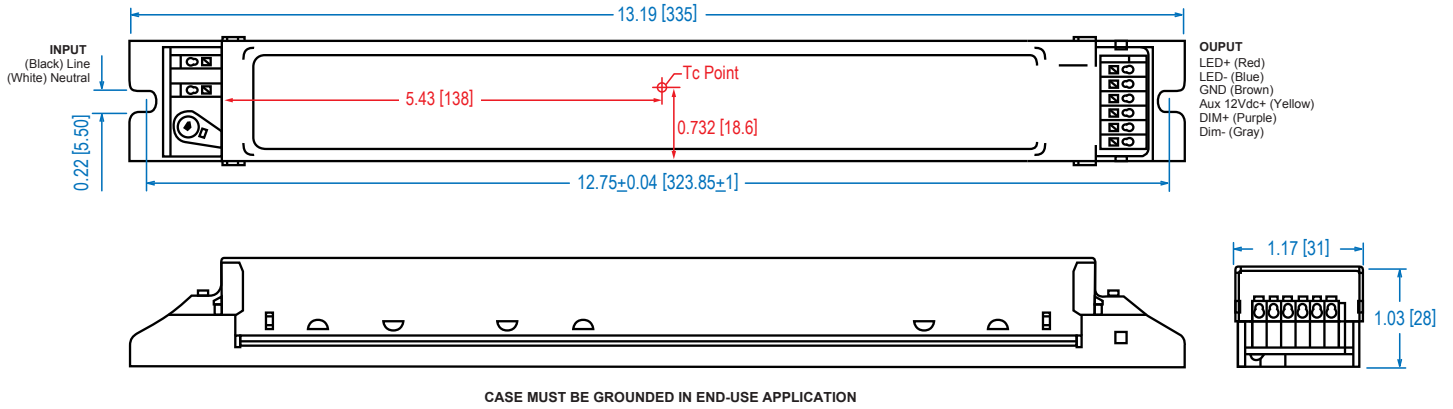
Safety Cert.	Standard
UL/CUL	UL8750, UL1310 for UL Class 2 & CAN/CSA C22.2 No. 250.13, UL Class P
CE	EN61347-1, EN61347-2-13
EMC Standard	Notes
FCC, 47CFR Part 15	ANSI C63.4:2014, Class A
EN 61000-3-2	Harmonic Current Emissions Class C
EN 61000-4-5	Part 4-5: Surge Immunity test, 2 kV L-N, 4 kV L-FG & N-FG

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



**Dimensions**

IN [mm]

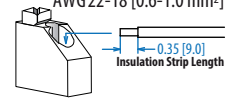


**Remote Mounting:**

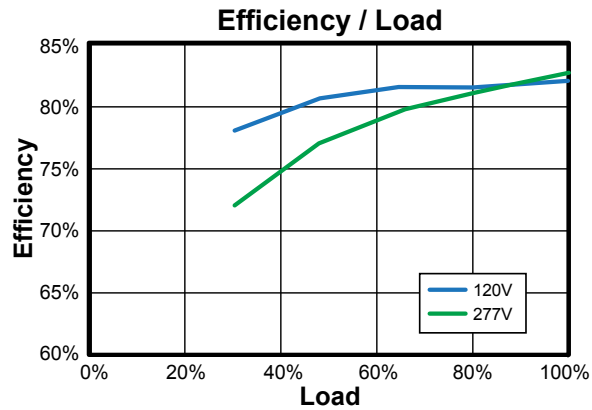
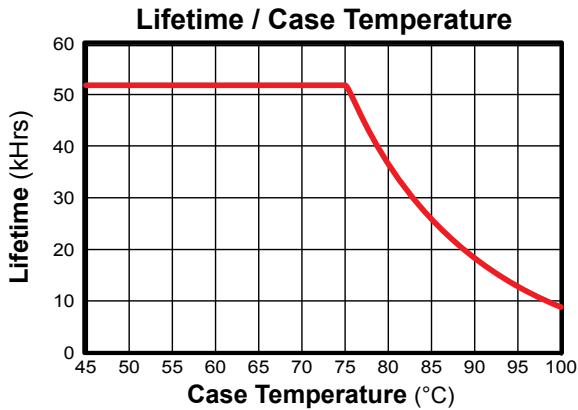
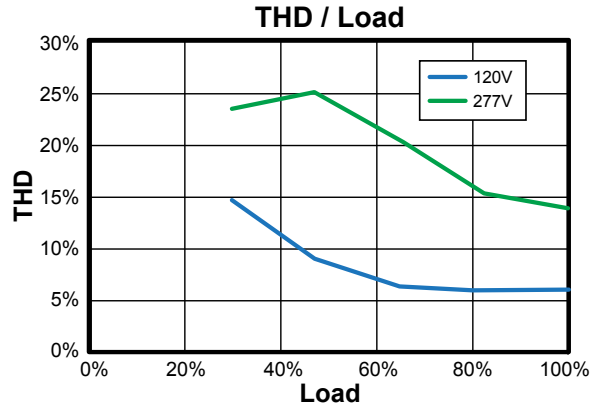
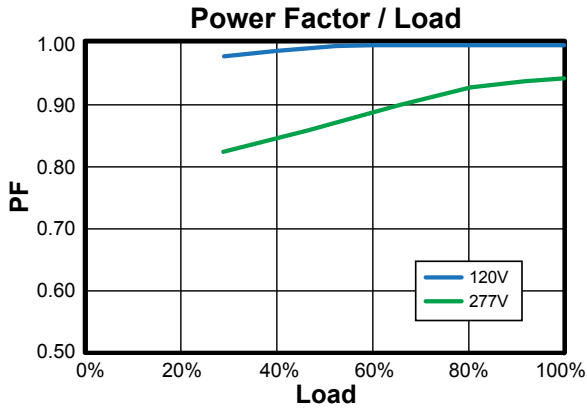
Max Distance 26ft. using #18 AWG

**PUSH IN CONNECTORS**

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



### Power Characteristics

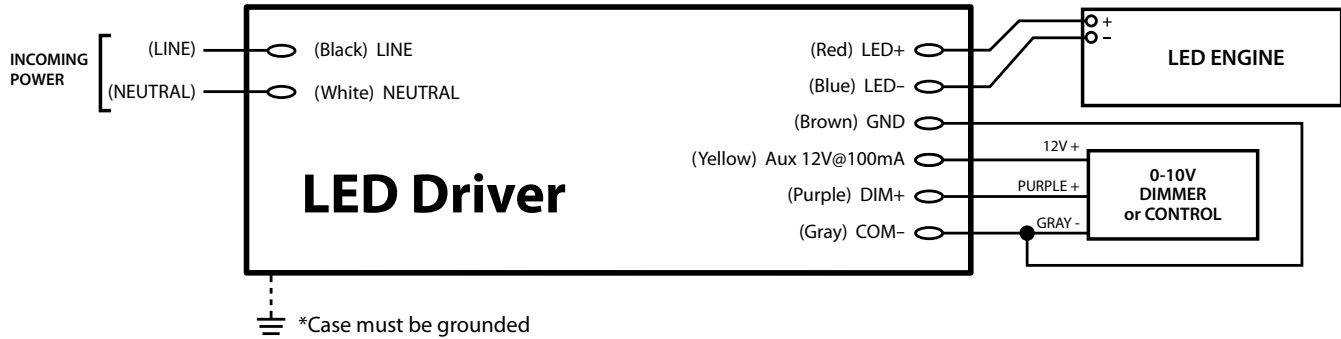


### Parameter Defaults

Parameter	Default Setting	Setting Range	Increment
Output Current (mA)	1050	150 - 1050	1
Analog Dimming Low Level (%)	1	0 - 100	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.

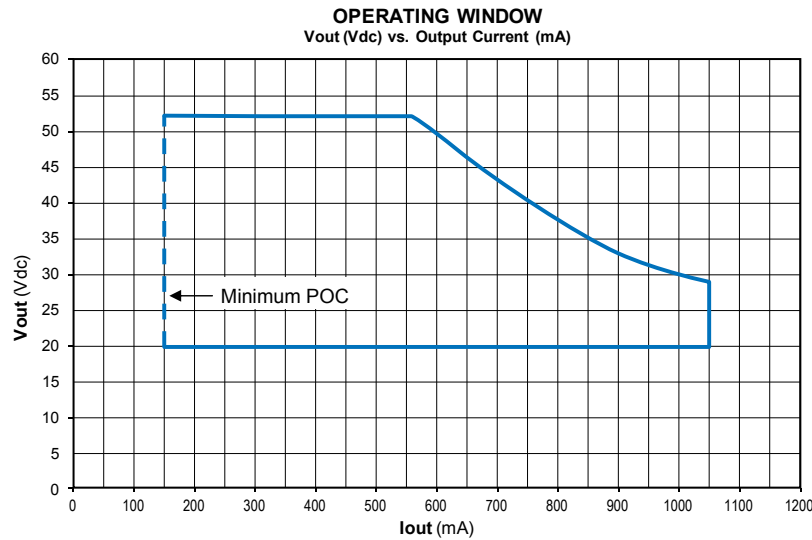
### Wiring



#### Notes

1. Yellow (+) and Brown (-) connectors are for auxiliary power.
2. Purple (+) and Gray (-) connectors are for 0-10V dimming.
3. Connect Brown/GND and Gray/COM together when using both dimming and auxiliary power functions.

### Power Operating Window



### Programming Guide

#### Lumen Output Compensation (LOC)

Parameters	Min	Max	Notes
Working Hours (Max 16 steps)	0 Hr	127.5 kWhrs	± 4%, Min step: 500 hrs.
Dim Level (Max 16 steps)	10%	130%	Min step: 1%

#### Dimming Interface

Parameters	Min	Max	Notes
1-10V	1%	100%	Min step: 1%
Schedule Dimming	Off/5% If Set On	100%	Min step: 1%

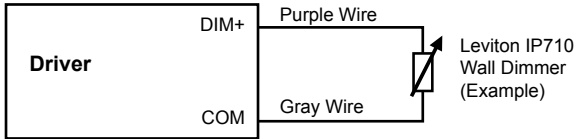
### Labeling Programmable Drivers

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

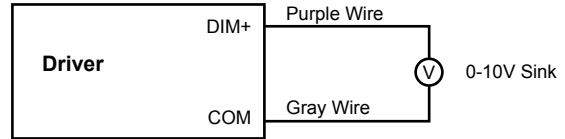
### Dimming: 0-10Vdc

Parameters	Minimum	Typical	Maximum
Source Current out of 0-10V Purple Wire		---	85µA
Absolute Voltage Range on 0-10V (+) Purple Wire		---	

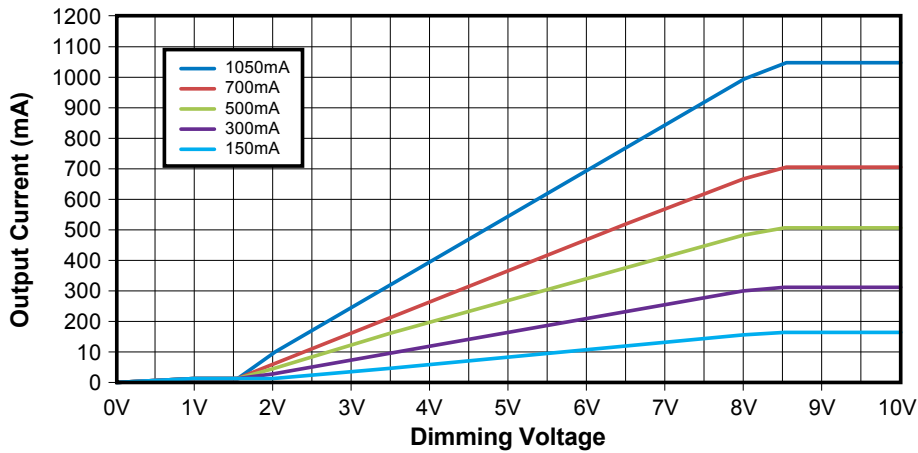
**Typical Dimming Circuit: 2-Wire Resistance**



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



**Dimming Control (0-10V Dimming)**



**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 0% when  $V_{dim} \leq 0.70V$ .
4. Output will be 100% with Purple/Gray open and 0% with Purple/Gray Shorted.
5. Purple and Gray dimming connectors are isolated from driver inputs and outputs.