S030W-052C1050-L03-UN-D2
30W Programmable Driver

select|SYNC intelligent

NFC | c(UL)us | CLASS P | FC | RoHS COMPLIANT | IP20

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 $\geq$ 100ºC

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.

HUBBELL

# S030W-052C1050-L03-UN-D2
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Dimensions

IN [mm]

13.19 [335]

INPUT
(Black) Line
(White) Neutral

OUPUT
LED+ (Red)
LED- (Blue)
NTC (Brown)
Aux 12Vdc+ (Yellow)
DIM+ (Purple)
Dim- (Gray)

5.43 [138]

Tc Point

0.732 [18.6]

0.22 [5.50]

12.75±0.04 [323.85±1]

1.17 [31]

1.03 [28]
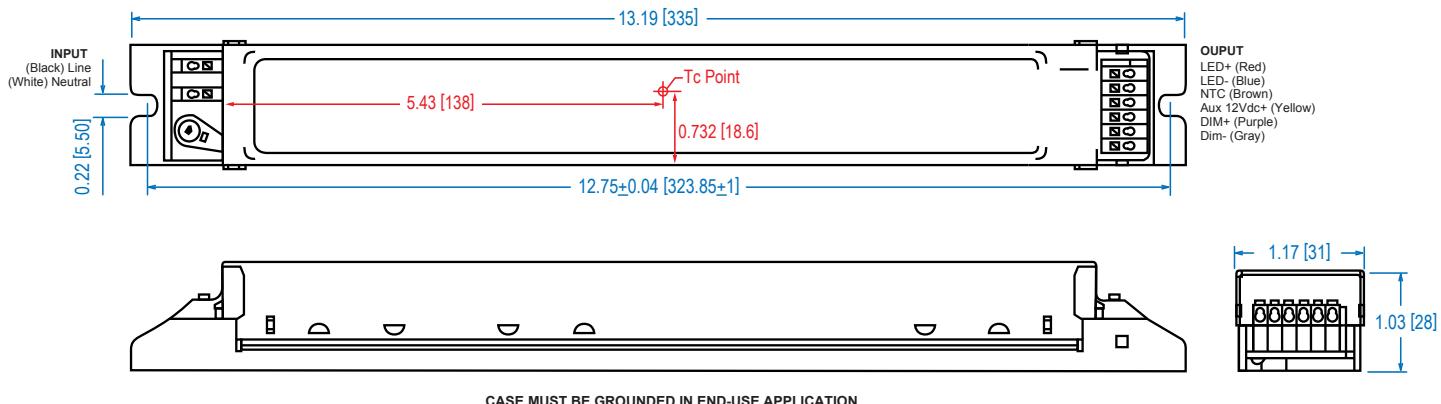
CASE MUST BE GROUNDED IN END-USE APPLICATION

Remote Mounting:
Max Distance 26ft. using #18 AWG

PUSH IN CONNECTORS

Wire Gauge: Solid Copper
AWG 22-18 [0.6-1.0 mm²]

0.35 [9.0]
Insulation Strip Length

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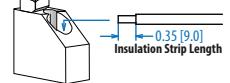
Power Characteristics

Power Factor / Load

THD / Load

Lifetime / Case Temperature

Efficiency / Load
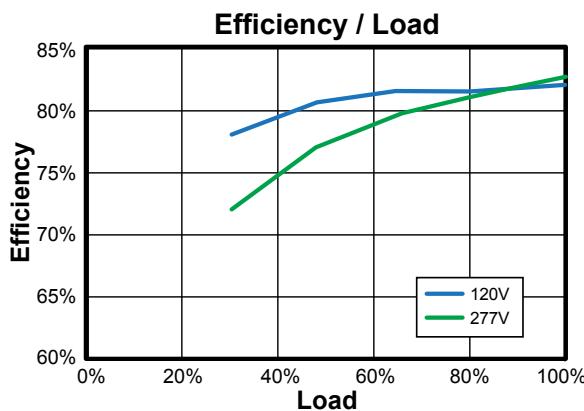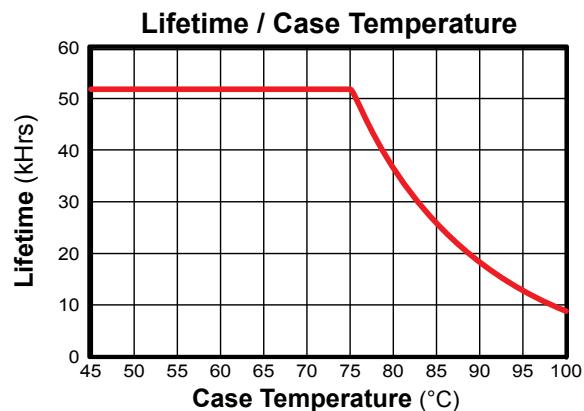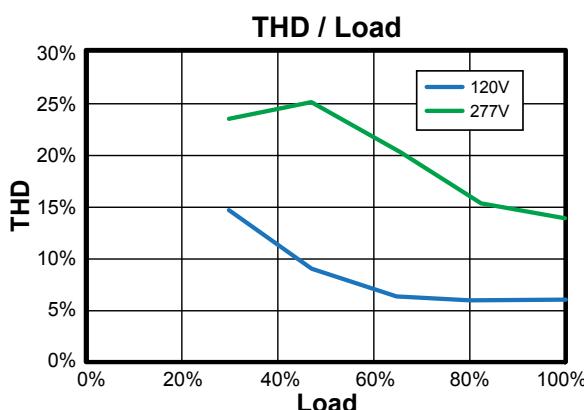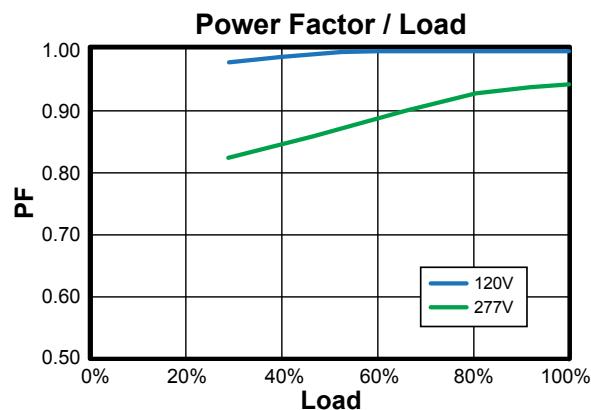
Parameter Defaults

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

INCOMING POWER

(LINE) — (Black) LINE
(NEUTRAL) — (White) NEUTRAL

LED Driver

(Red) LED+
(Blue) LED–
(Brown) NTC
(Yellow) Aux 12V@100mA
(Purple) DIM+
(Gray) COM–

LED ENGINE

NTC

OPTIONAL
PURPLE +
GRAY -

0-10V DIMMER or CONTROL

FOR NTC OPTION

*Case must be grounded

Power Operating Window

OPERATING WINDOW
Vout (Vdc) vs. Output Current (mA)

Minimum POC
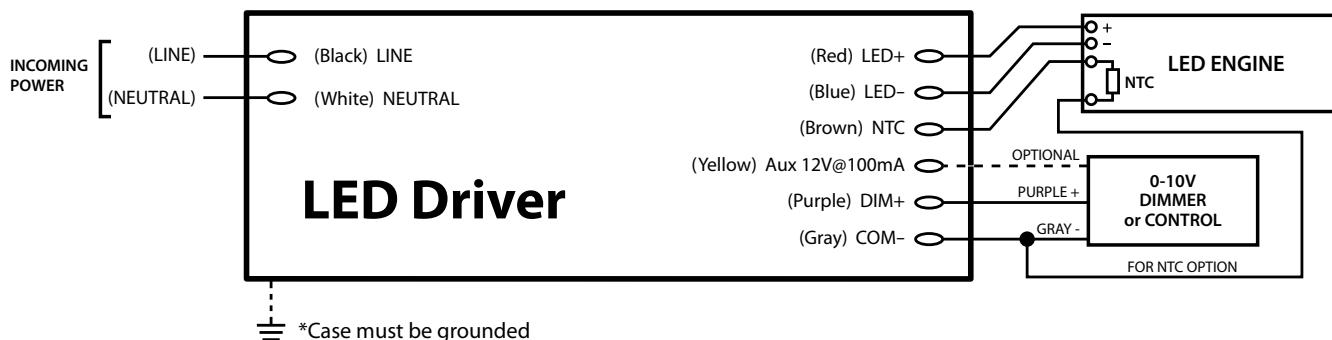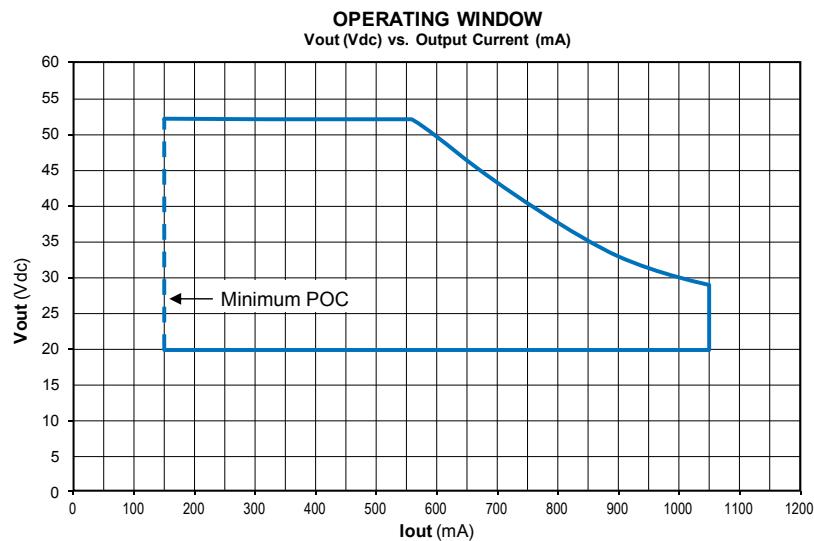
Programming Guide

Lumen Output Compensation (LOC)

Parameters	Min	Max	Notes
Working Hours (Max 16 steps)	0 Hr	127.5 kHrs	$\pm$ 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%

Temperature Protection Control (TPC) - *Use with external NTC Resistor*

Parameters	Min	Max	Notes
T start	50ºC	85ºC	Min step: 1ºC , Temp. @ Dim start
T stop	55ºC	95ºC	Min step: 1ºC , Temp. @ Dim stop
T max	60ºC	105ºC	Min step: 1ºC , Temp. @ Dim off
TPC tolerance	-3ºC	3ºC	Tolerance @ Tstart, Tstop, Tmax
Protection Dim Level	10%	90%	Min step: 1% , Dim Level @ T stop

**Note: External TPC is settable based on NCP18XH103 or equivalent thermistor (10kΩ at 25ºC).*

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

Driver — DIM+ — Purple Wire — Leviton IP710 Wall Dimmer (Example)
Driver — COM — Gray Wire
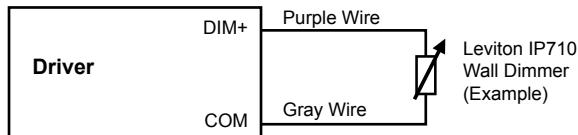
Typical Dimming Circuit: 2-Wire 0-10V Analog

Driver — DIM+ — Purple Wire — (V) 0-10V Sink
Driver — COM — Gray Wire
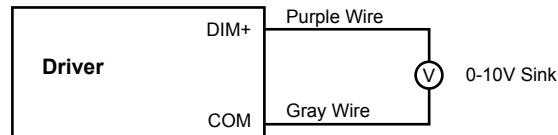
Dimming Control (0-10V Dimming)

Legend:
- 1050mA
- 700mA
- 500mA
- 300mA
- 150mA

X-axis: Dimming Voltage (0V–10V)
Y-axis: Output Current (mA)
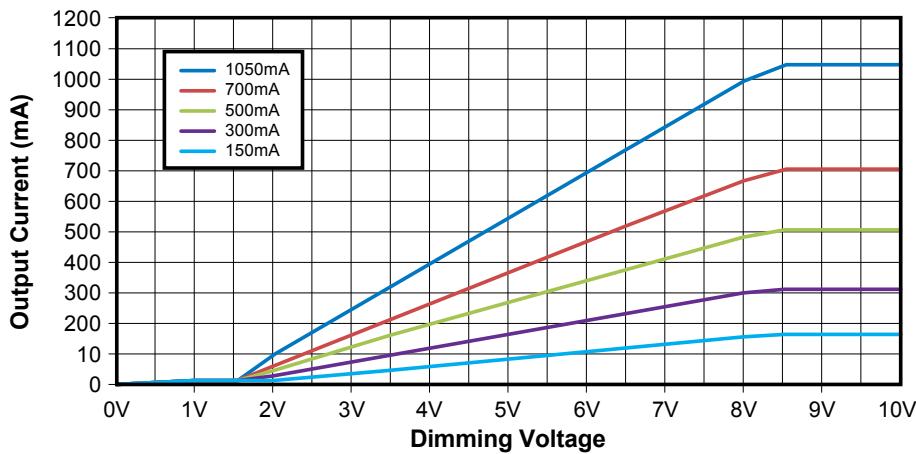
0-10V Dimming Notes:

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 Vdim ≤0.70V.
4. Output will be 100% with Purple/Gray open and 0% with Purple/Gray Shorted.