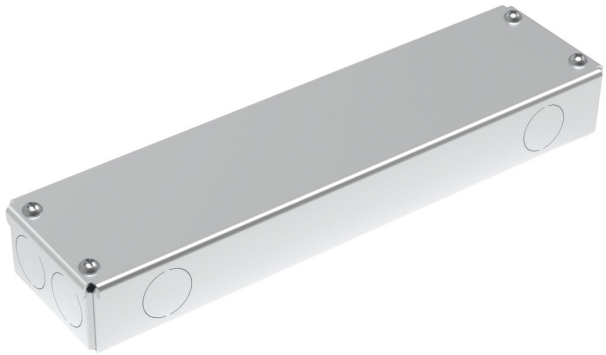
SCOUT LIGHTING
Designed - Built - Shipped - New York

50 WATT 0-10 / PHASE LED DRIVER

PART #SDRVCC010P501200

Project : _____ Firm : _____ Type : _____ Quantity: _____



Quick Specs

Driver Type	Constant Current
Dimming Control	0-10 / Phase
# of Channels	1
DC Voltage Range	28-42 VDC
AC Input Voltage	120 - 277
Class	2
mA	600 - 1200
Wattage	50.4
Warranty	5 years
Efficency	>90%

Max Load (1200mA)

Super Low (50mA)	24 Feet
Low (89mA)	13 Feet
Medium (149mA)	8 Feet
High (250mA)	4 Feet
Super High (300mA)	4 Feet

Max Distance

20 AWG	20 Feet
18 AWG	40 Feet
16 AWG	60 Feet
14 AWG	100 Feet
12 AWG	150 Feet

Scout Lighting reserves the right to modify this specification without prior notice. Updated 10/02/21.

New York, NY
1.833.SCOUTLD
www.ScoutLighting.com
Info@ScoutLighting.com

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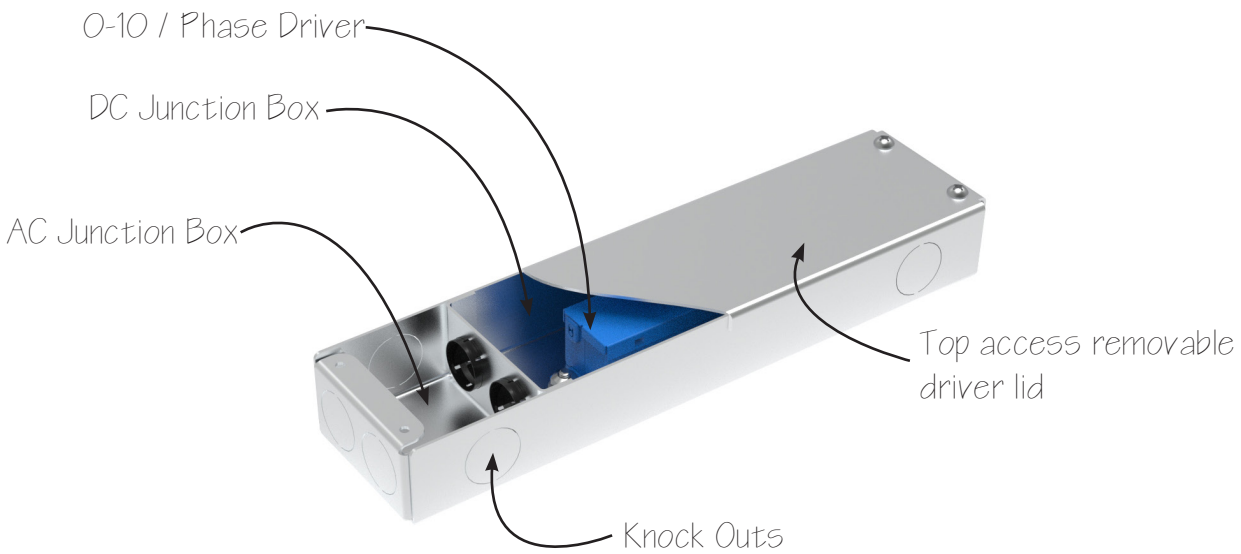
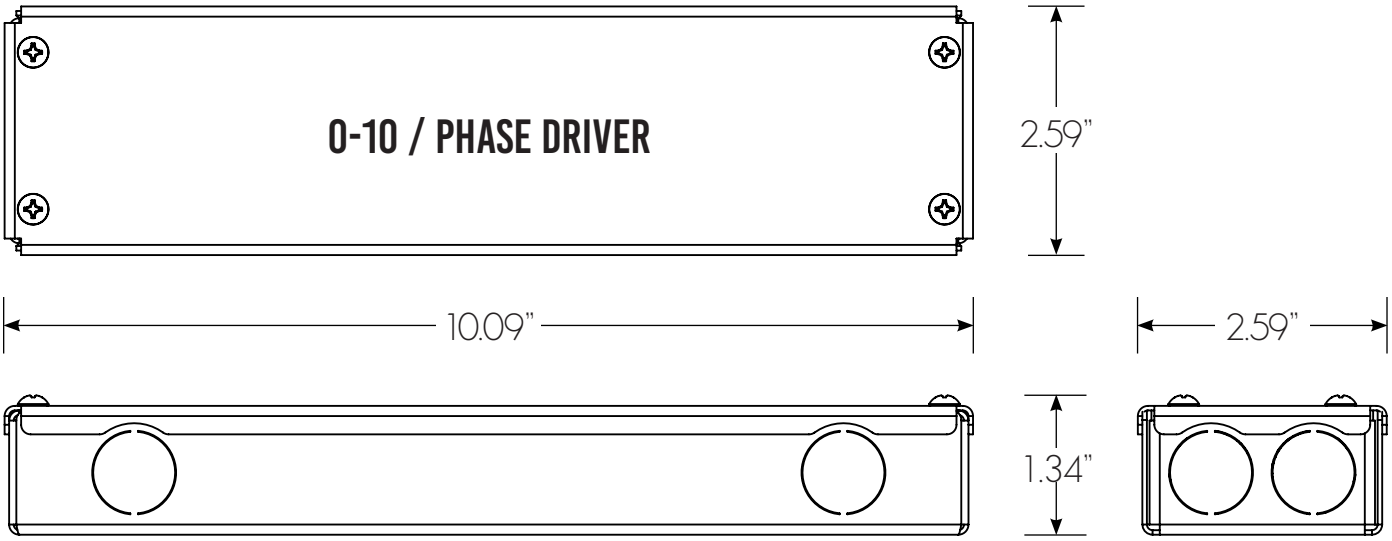
PART #SDRVCC010P501200

Driver Anatomy



Dimensions



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50 WATT 0-10 / PHASE LED DRIVER

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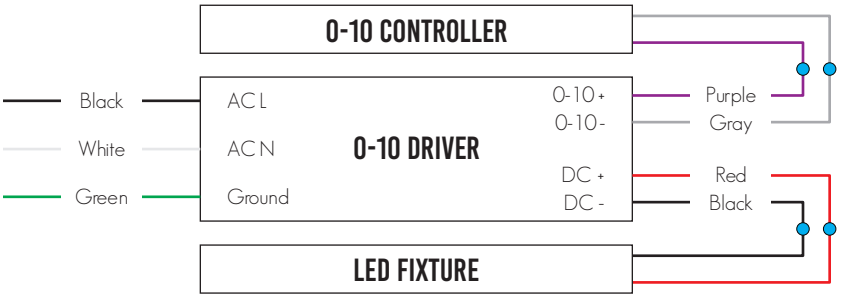
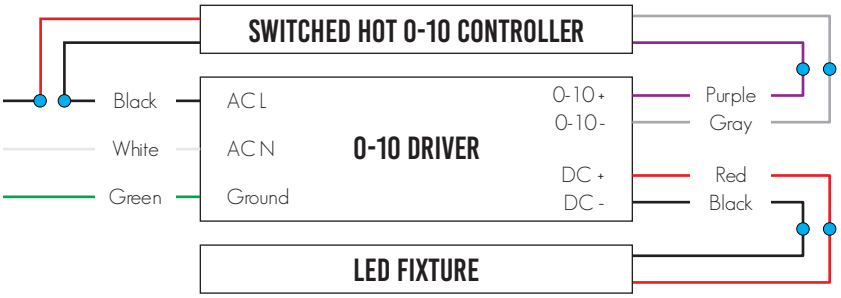
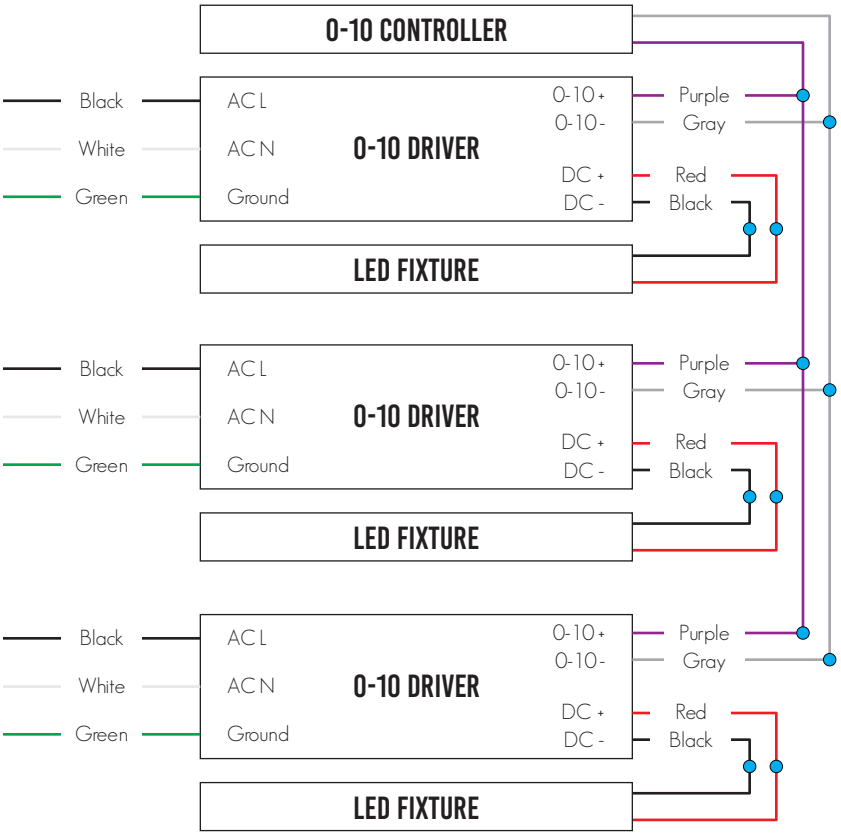
0-10 Wiring



Single 0-10 wiring



Switched Hot 0-10 Wiring



Multiple fixture wiring to single 0-10 Dimmer

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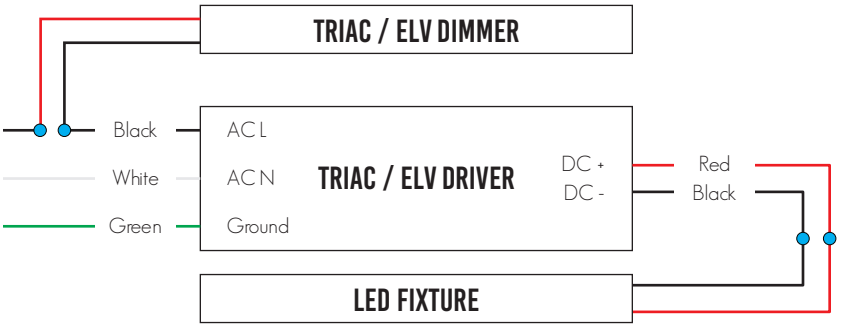
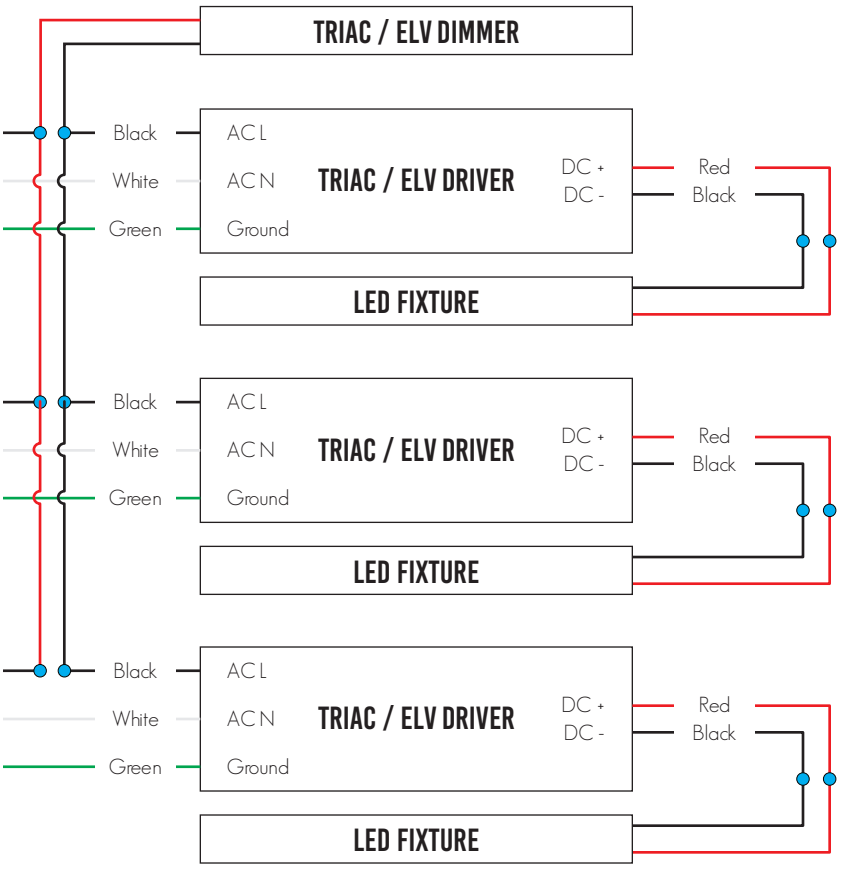
50 WATT 0-10 / PHASE LED DRIVER

PART #SDRVCC010P501200

Phase Wiring



Single Phase wiring



Multiple fixture wiring to single phase Dimmer

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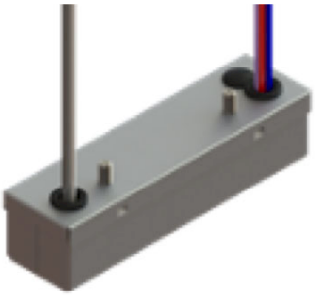
PHB50/30 Series

PHB50 50 W
PHB30 30 W

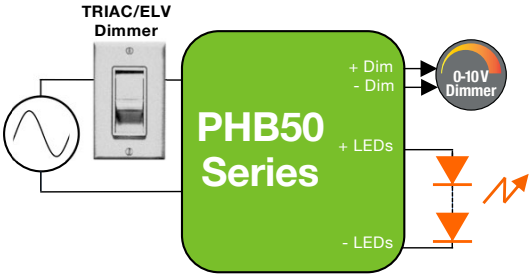
High Performance Programmable CC Class 2/Class II LED Driver with Tri-Mode Dimming™ (TRIAC, ELV & 0-10 V)

Nominal Input Voltage	Max. Output Power	Efficiency	Max. Case Temperature	THD	Power Factor	Dimming Method	Dimming Range	Startup Time
120 & 277 Vac	50 W	up to 90% typical	90°C (measured at the hot spot)	< 20%	> 0.9	Programmable Forward-Phase, Reverse-Phase & 0 - 10V	1 - 100% (% of Iout)	300 ms typical

Side Leads
L 103.5 * W 26.2 * H 23.85 mm
(L 4.07 * W 1.03 * H 0.94 in.)



Bottom Leads with Studs: "-S" Suffix
L 103.5 * W 26.2 * H 23.85 mm
(L 4.07 * W 1.03 * H 0.94 in.)

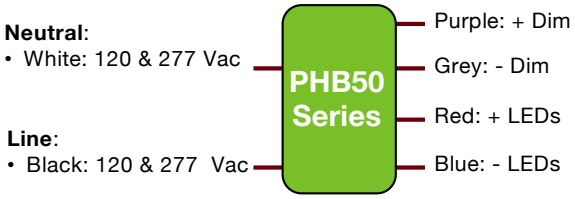


FEATURES

- Ripple < 10% @ 20% & 100% load for TRIAC, ELV, and 0-10V
- Turn-on at 1% Iout for TRIAC, ELV, and 0-10V dimming
- Programmable conduction angles with turn-on & turn-off for TRIAC & ELV
- Programmable 0-10V dimming profile
- Non-linear 0-10V dimming profile with dim-to-off pre-loaded by default (10V to 9.0V=100%, 1.5V to 0.7V=1%, <0.7V=dim-to-off)
- UL Class P
- Class 2 output
- Class II power supply
- Lifetime: 50,000 hours @ Tc ≤ 75°C
- 90°C maximum case hot spot temperature
- IP20-rated case with silicone-based potting
- Surge protection:
  - IEC61000-4-5: 2 kV line to line/2 kV line to earth
  - 2.5 kV ring wave: ANSI/IEEE c62.41.1-2002 & c62.41.2-2002 category A
- Complies with ENERGY STAR®, DLC (DesignLight Consortium®), CA Title 24, and NEMA SSL-1-2016 technical requirements

SERIAL PORT PROGRAMMING

- Current: 100% to 50% in each voltage range
- Data log read: SKU, S/N, lot code, hours of operation, FW rev.
- Fully programmable and selectable 0-10V dimming profiles: Non-linear with dim-to-off, Logarithmic, non-Linear without dim-to-off.
- Programmable conduction angles with turn-on & turn-off for TRIAC & ELV



Wiring Diagram

APPLICATIONS

- Commercial & residential lighting
- Architectural lighting
- Indoor Lighting

Class 2 c UL us LISTED FC CA Title 24 5 Year Warranty

High Performance Programmable CC Class 2/Class II LED Driver with Tri-Mode Dimming™ (TRIAC, ELV & 0-10 V)

1 - ORDERING INFORMATION

Part Number	Nominal Input Voltage (Vac)	Max Output Power (W)	Iout (mA)	Default Programmed Current (mA)	Vout Min. (Vdc)	Vout Nom. (Vdc)	Vout Max. (Vdc)*	Open Loop (No Load) Voltage (Vdc)	Comments
120 & 277 VAC NOMINAL INPUT VOLTAGE									
PHB30W									
PHB30W-0500-42	120 & 277	21.0	250 to 500	250	28	37.8	42	50	Side leads
PHB30W-0700-42	120 & 277	29.4	350 to 700	350	28	37.8	42	50	Side leads
PHB50W									
PHB50W-0850-56	120 & 277	47.6	425 to 850	425	38	50.4	56	60	Side leads
PHB50W-1200-42	120 & 277	50.4	600 to 1200	600	28	37.8	42	50	Side leads
120 & 277 VAC NOMINAL INPUT VOLTAGE									
PHB30W									
PHB30W-0500-42-S	120 & 277	21.0	250 to 500	250	28	37.8	42	50	Bottom leads with studs
PHB30W-0700-42-S	120 & 277	29.4	350 to 700	350	28	37.8	42	50	Bottom leads with studs
PHB50W									
PHB50W-0850-56-S	120 & 277	47.6	425 to 850	425	38	50.4	56	60	Bottom leads with studs
PHB50W-1200-42-S	120 & 277	50.4	600 to 1200	600	28	37.8	42	50	Bottom leads with studs

** The forward voltage (Vf) of the LED load should not exceed Vout Max. of the driver under worst case field operating conditions which are the Vf max. of the LED load under lowest temperature and highest forward current conditions. As a general design guideline, the nominal LED load Vf measured at the operating current and at room temperature should be ≤ Vout Nom. of the driver.*

Programming Cable

Part number: PROG-JACK-USB

Notes:

- *For each model, **the default output current setting is the MINIMUM current** Example: the default output current setting for the PHB50W-1200-42 is 600 mA.*
- *For additional options of output current and output voltage, contact your sales representative or send an email to: SaveEnergy@erp-power.com*
- *Please order the programming cable using the part number PROG-JACK-USB.*

High Performance Programmable CC Class 2/Class II LED Driver with Tri-Mode Dimming™ (TRIAC, ELV & 0-10 V)

2 - INPUT SPECIFICATION (@25° C ambient temperature)

	Units	Minimum	Typical	Maximum	Notes
Input Voltage Range (Vin)	Vac	90	120 & 277	305	•The rated output current for each model is achieved at Vin≥108 Vac & at Vin≥249 Vac. •At nominal load
Input Frequency Range	Hz	47	50, 60	63	
Input Current (Iin)	A			0.5 A @ 120 Vac 0.23 A @ 277 Vac	
Power Factor (PF)		0.9	> 0.9		•At 120 & 277 Vac and with nominal LED voltage •From 100% to 50% of rated power
Inrush Current	A	Meets NEMA-410 requirements			•At any point on the sine wave and 25°C
Leakage Current	mA			0.3 mA @ 120 Vac 0.7 mA @ 277 Vac	Measured per IEC60950-1
Input Harmonics	Complies with IEC61000-3-2 for Class C equipment				
Total Harmonics Distortion (THD)				20%	•At 120 & 277 Vac and with nominal LED voltage •From 100% to 50% of rated power •Complies with DLC (Design Light Consortium) technical requirements
Standby Power	W			1	
Efficiency	%	-	up to 90%	-	Measured at 120 & 277 Vac, a full sinusoidal wave form and without dimmer attached.
Isolation	The AC input to the main DC output is isolated.				

3 - MAIN OUTPUT SPECIFICATION (@25° C ambient temperature)

	Units	Minimum	Typical	Maximum	Notes
Output Voltage (Vout)	Vdc				See ordering information for details
Output Current (Iout)	mA				•See ordering information for details •The rated output current for each model is achieved at Vin≥108 Vac & at Vin≥249 Vac
Output Current Regulation	%	-5	±2.5	5	•At 120 & 277 Vac •Includes load and current set point variations
Output Current Overshoot	%	-	-	10	The driver does not operate outside of the regulation requirements for more than 500 ms during power on with nominal LED load and without dimmer.
Ripple Current	≤ 10% of rated output current for each model				•At 20% & 100% load for TRIAC, ELV & 0-10V dimmers
Dimming Range (% of Iout)	%	1		100	•The dimming range is dependent on each specific dimmer. It may not be able to achieve 1% dimming with some dimmers. •Dimming performance is optimal when the driver is operated at its nominal output voltage matching the LED nominal Vf (forward voltage). Dimming performance may vary when the driver is operated near its minimum output voltage.
Start-up Time	ms		300	500	•Turn on at 1% Iout for ELV and 0-10V dimmers •Measured from application of AC line voltage to 100% light output •Complies with ENERGY STAR® luminaire specification and CA Title 24
Isolation	The main DC output is certified and tested per UL8750 Class 2 or LED Class 2				

High Performance Programmable CC Class 2/Class II LED Driver with Tri-Mode Dimming™ (TRIAC, ELV & 0-10 V)

4 - 0-10 V DIMMING CONTROL (@25° C ambient temperature)

In the PHB50/30 series, several 0-10V dimming profiles can be selected, such as a logarithmic profile, a non-linear profile with 1% minimum dimming and dim-to-off, and a non-linear profile with 10% minimum dimming and no dim-to-off. Furthermore, every point in the non-linear dimming profile can be programmed using the programming software.

By default, the non-linear profile with 1% minimum dimming and dim-to-off (shown in figure 1) is pre-loaded in the PHB50/30 series.

	Units	Minimum	Typical	Maximum	Notes
+Dim Signal, -Dim Signal	The PHB50/30 series operate only with 0-10V dimmers that sink current. The method to dim the output current of the driver is done via the +Dim/-Dim Signal pins. The +Dim/-Dim signal pins can be used to adjust the output setting via a standard commercial wall dimmer, an external control voltage source (0 to 10 Vdc), or a variable resistor when using the recommended number of LEDs. The dimming input permits 1% to 100% dimming.				
Dimming Profile (see figure 1)	100% of output current between 10 V and 9.0 V, Linear between 9.0 V and 1.5 V, 1% of output current between 1.5 V and 0.7 V, Output current off below 0.7 V.				
Dimming Range	%	1		100	As a percent of the output current
High Level Voltage - A	V	8.9	9.0	9.1	
Low Level Voltage - B	V		1.5		
Dim to Off - C	V	0.6	0.7	0.8	
Dim to Off Hysteresis - D	V			+0.2	
Current Supplied by the +Dim Signal Pin	mA			1	
Output Current Tolerance While Being Dimmed	%			±8	The tolerance of the output current while being dimmed is ≤ +/-8% until down to 1.5V.
Minimum Dimming Tolerance	%		1	1.5	
Isolation	The 0-10 V circuit is isolated from the AC input.				

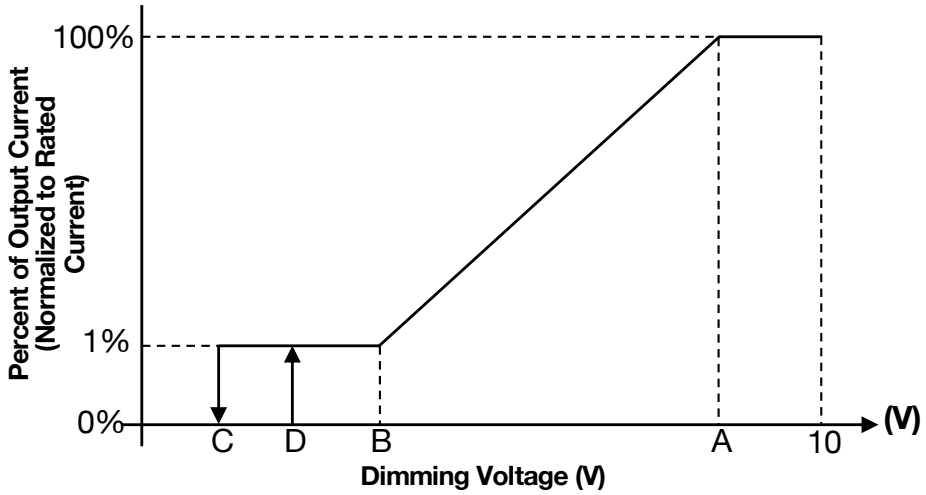


Figure 1

COMPATIBLE 0-10 V DIMMERS

- Lutron, Nova series (part number NFTV)
- Leviton, IllumaTech series (part number IP710-DL)
- Lutron, Diva series (part number DVTV)

High Performance Programmable CC Class 2/Class II LED Driver with Tri-Mode Dimming™ (TRIAC, ELV & 0-10 V)

5 - ENVIRONMENTAL CONDITIONS

	Units	Minimum	Typical	Maximum	Notes
Operating Ambient Temperature (Ta)	°C	-10		50	
Maximum Case Temperature (Tc)	°C			+90	Case temperature measured at the hot spot •tc (see label on page 16)
Storage Temperature	°C	-40		+85	
Humidity	%	5	-	95	Non-condensing
Cooling	Convection cooled				
Acoustic Noise	dBA			24	Measured at a distance of 1 meter, without dimmer
Mechanical Shock Protection	per EN60068-2-27				
Vibration Protection	per EN60068-2-6 & EN60068-2-64				
MTBF	> 200,000 hours when operated at nominal input and output conditions, and at Tc ≤ 75°C				
Lifetime	50,000 hours at Tc ≤ 75°C maximum case hot spot temperature (see hot spot •tc on label in page 16)				

6 - EMC COMPLIANCE, STANDARD COMPLIANCE, AND SAFETY APPROVALS

EMC Compliance			
Conducted and Radiated EMI	Compliant with FCC CFR Title 47 Part 15 Class B at 120 Vac & Class A at 277 Vac		
Harmonic Current Emissions		IEC61000-3-2	For Class C equipment
Voltage Fluctuations & Flicker		IEC61000-3-3	
Immunity Compliance	**ESD (Electrostatic Discharge)**	IEC61000-4-2	6 kV contact discharge, 8 kV air discharge, level 3
	RF Electromagnetic Field Susceptibility	IEC61000-4-3	3 V/m, 80 - 1000 MHz, 80% modulated at a distance of 3 meters
	Electrical Fast Transient	IEC61000-4-4	± 2 kV on AC power port for 1 minute, ±1 kV on signal/control lines
	Surge	IEC61000-4-5	± 2 kV line to line (differential mode) /± 2 kV line to common mode ground
		ANSI/IEEE c62.41.1-2002 & c62.41.2-2002 category A, 2.5 kV ring wave	
	Conducted RF Disturbances	IEC61000-4-6	3V, 0.15-80 MHz, 80% modulated
	Voltage Dips	IEC61000-4-11	>95% dip, 0.5 period; 30% dip, 25 periods; 95% reduction, 250 periods

Standard Compliance and Safety Agency Approvals	
UL	UL8750 listed Class 2
cUL	CAN/CSA C22.2 No. 250.13-14 LED equipment for lighting applications
NEMA	SSL-1-2016

Safety					
	Units	Minimum	Typical	Maximum	Notes
Hi Pot (High Potential) or Dielectric voltage-withstand	Vdc	4400			•Tested at the RMS voltage equivalent of 3100 Vac •Meets class II reinforced/double insulation

7 - PROTECTION FEATURES

Input Over Current Protection

The PHB series incorporates a primary AC line fuse for input over current protection to prevent damage to the LED driver and meet product safety requirements as outlined in Section 6.

Short Circuit and Over Current Protection

The PHB50/30 series is protected against short-circuit such that a short from any output to return shall not result in a fire hazard or shock hazard. The driver shall hiccup as a result of a short circuit or over current fault. Removal of the fault will return the driver to within normal operation. The driver shall recover, with no damage, from a short across the output for an indefinite period of time.

Internal Over temperature Protection

The PHB50/30 series is equipped with internal temperature sensor on the primary power train. Failure to stay within the convection power rating will result in the power supply reducing the available current (fold back) below the programmed amount. The main output current will be restored to the programmed value when the temperature of the built-in temperature sensor cools adequately.

Output Open Load Protection

When the LED load is removed, the output voltage of the PHB50/30 series is typically limited to 1.3 times the maximum output voltage of each model.

High Performance Programmable CC Class 2/Class II LED Driver with Tri-Mode Dimming™ (TRIAC, ELV & 0-10 V)

8 - PHASE-CUT DIMMING

Dimming of the driver is possible with standard TRIAC-based incandescent dimmers that chop the AC voltage as shown in Figure 2, or with ELV dimmers. During the rapid rise time of the AC voltage when the dimmer turns on, the driver does not generate any voltage or current oscillations, and inrush current is controlled. During the on-time of the AC input, the driver regulates the output current based upon the conduction angle. The RMS value of the driver output current is proportional to the on-time of the AC input voltage. When operating with an incandescent dimmer, the RMS output current varies depending upon the conduction angle and RMS value of the applied AC input voltage. Figure 3 shows the typical output current versus conduction angle at nominal input voltage.

Forward-phase (TRIAC) and reverse-phase (ELV) dimming work only at 120 Vac.

The PHB50/30 series offers Tri-Mode Dimming™ compatibility with both phase-cut (reverse-phase and forward-phase) and 0–10V dimmers. Phase-cut dimming always has priority over 0-10 V dimming.

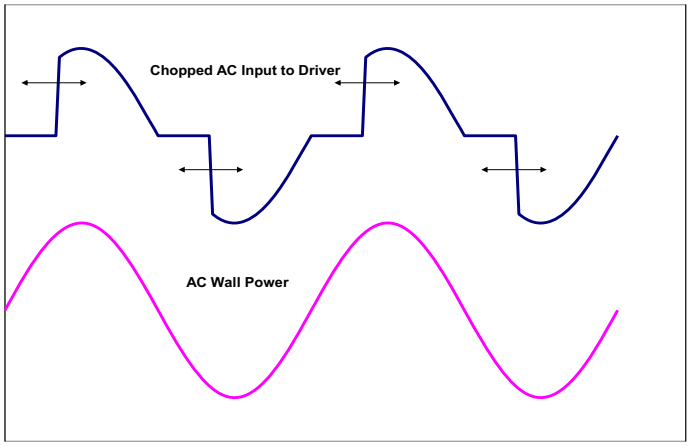


Figure 2

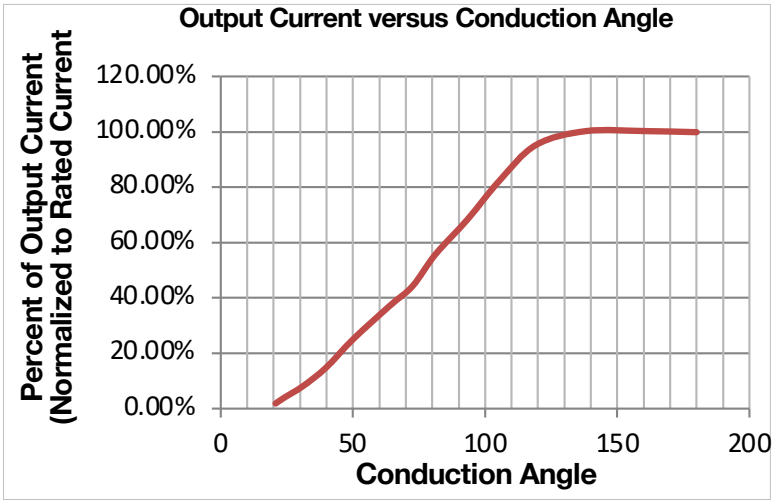


Figure 3

COMPATIBLE PHASE-CUT DIMMERS & DIMMING RANGE

120Vac Dimmers					
Mfg.	**Model**	**Mfg.**	**Model**	**Mfg.**	**Model**
Leviton	IPI06-1LZ	**Leviton**	6161	**Leviton**	LGCL-153PL
Lutron	DVCL-153P	**Cooper**	DLC03P-W	**Lutron**	SCL-153P
Lutron	TGCL-153P	**Lutron**	CT-103P	**Lutron**	MACL-153M
Lutron	S-600P	**Lutron**	DV603P	**Cooper**	AAL06A-C2
Leviton	VPE06	**Cooper**	SLC03P	**Leviton**	IPL06
Lutron	SELV-300P	**Lutron**	MAELV600	**Lutron**	DVLV600P
Leviton	6673-10W	**Lutron**	FAELV500	**Lutron**	RRD-6CL
Leviton	VPI06-ILT	**Cooper**	DAL06P		

High Performance Programmable CC Class 2/Class II LED Driver with Tri-Mode Dimming™ (TRIAC, ELV & 0-10 V)

8 - PHASE-CUT DIMMING (CONTINUED)

The PHB series offers the ability to customize conduction angles for high performance TRIAC/ELV dimming through ERP's Driver Configuration Tool, downloadable through the ERP website (https://www.erp-power.com/). While using the tool, users can select pre-configured conduction angles from a list of dimmers (figure 4). Users can also use the tool to program custom conduction angles for dimmers not included in the provided list (figure 5). Additionally, the custom conduction angle feature can enable or disable the use of dim-to-off conduction angles.

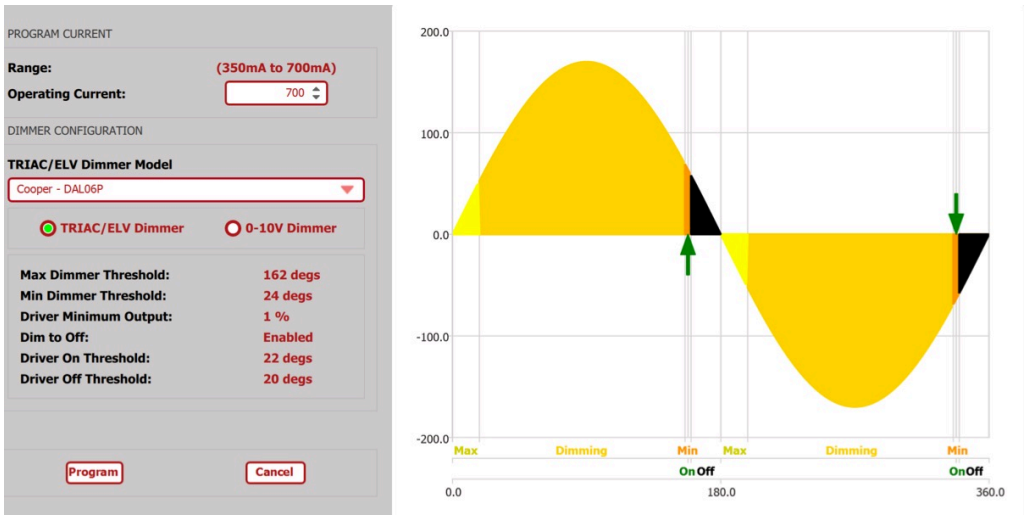


Figure 4

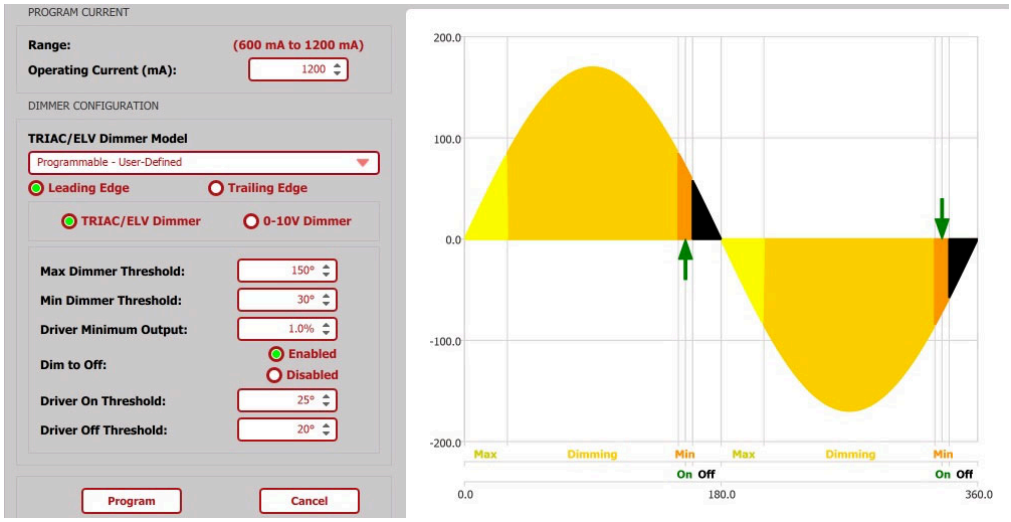


Figure 5

High Performance Programmable CC Class 2/Class II LED Driver with Tri-Mode Dimming™ (TRIAC, ELV & 0-10 V)

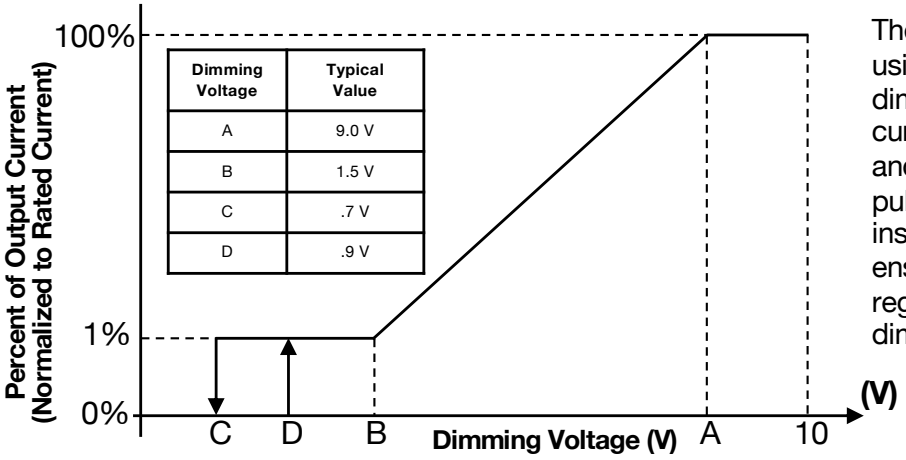
9 - 0-10 V DIMMING

The PHB50/30 series operate only with 0-10V dimmers that sink current. They are not designed to operate with 0-10V control systems that source current, as used in theatrical/entertainment systems. Developed in the 1980's, the 0-10V sinking current control method is adopted by the International Electrotechnical Commission (IEC) as part of its IEC Standard 60929 Annex E.

The method to dim the output current of the driver is done via the +Dim/-Dim Signal pins. The +Dim/-Dim Signal pins respond to a 0 to 10 V signal, delivering 1% to 100% of the output current based on rated current for each model. A pull-up resistor is included internal to the driver. When the +Dim wire (purple) is short circuited to the –Dim wire (grey) or to the –LED wire (blue), the output current turns off.
If the +Dim input is > 10 V or open circuited, the output current is programmed to 100% of the rated current.
When not used, the –Dim wire (grey) and to the +Dim wire (purple) can be individually capped or cut off. In this configuration, no dimming is possible and the driver delivers 100% of its rated output current.

The maximum source current (flowing from the driver to the 0-10V dimmer) supplied by the +Dim Signal pin is ≤ 1 mA. The tolerance of the output current while being dimmed shall be +/-8% typical until down to 1.5 V.

In the PHB50/30 series, several 0-10V dimming profiles can be selected, such as a logarithmic profile, a non-linear profile with 1% minimum dimming and dim-to-off, and a non-linear profile with 10% minimum dimming and no dim-to-off. Furthermore, every point in the non-linear dimming profile can be programmed using the programming software.
By default, the non-linear profile with 1% minimum dimming and dim-to-off (show in figure 6) is pre-loaded in the PHB50/30 series. In this non-linear 0-10V dimming profile, 10V to 9.0V=100% of the output current, 1.5V to 0.7V=1%, <0.7V=dim-to-off (no output current).



Dimming Voltage	Typical Value
A	9.0 V
B	1.5 V
C	.7 V
D	.9 V

Figure 6

The non-linear curve is recommended when using standard in wall 0-10 V logarithmic dimmers to avoid having insufficient source current available to pull the dimmer up to 10V and to account for the inability of the dimmer to pull below approximately 0.9V. In these type of installations, the modified transfer function will ensure 100% light output and dimming to 1%, regardless of the number of drivers on the 0-10V dimming line.

COMPATIBLE 0-10 V DIMMERS

- Lutron, Nova series (part number NFTV)
- Lutron, Diva series (part number DVTV)
- Leviton, IllumaTech series (part number IP710-DL)

High Performance Programmable CC Class 2/Class II LED Driver with Tri-Mode Dimming™ (TRIAC, ELV & 0-10 V)

10 - PROGRAMMING

The PHB50/30 series can be programmed by inserting the audio jack of the cable shown in figure 6 into the driver and by plugging the USB other end of the cable into a computer. ***The driver does not need to be powered on during the programming process.***

When ordering the PHB50/30 series, please make sure you order a programming cable. The part number for the programming cable is “PROG-JACK-USB”.

Programming is done by using the ERP Driver Configuration Tool, which enables the user to adjust output current from 100% to 50%, configure the 0-10 V dimming profile, and customize conduction angles.

Please note that, for each model, the **default output current setting is the minimum current**. For example, the default output current setting for the PHB50W-1200-42 is 600 mA.

Furthermore, when connecting the driver to a computer using the programming cable, you can access the driver’s internal data log and read the following information: SKU, serial number, manufacturing lot code, hours of operation, firmware revision, and fault events: power failure, and thermal events (i.e. number of times the case temperature has exceed the maximum case temperature of 90º C).

For more information, please refer to the GUI user’s manual at:
https://www.erp-power.com/our-products/programming-software/

Figure 7

High Performance Programmable CC Class 2/Class II LED Driver with Tri-Mode Dimming™ (TRIAC, ELV & 0-10 V)

11 - PREDICTED LIFETIME VERSUS CASE AND AMBIENT TEMPERATURE

Lifetime is defined by the measurement of the temperatures of all the electrolytic capacitors whose failure would affect light output under the nominal LED load and worst case AC line voltage. The graphs in figures 8 and 9 are determined by the electrolytic capacitor with the shortest lifetime, among all electrolytic capacitors. It represents a worst case scenario in which the LED driver is powered 24 hours/day, 7 days/week. The lifetime of an electrolytic capacitor is measured when any of the following changes in performance are observed:

1) Capacitance changes more than 20% of initial value

2) Dissipation Factor (tan δ): 150% or less of initial specified value

3) Equivalent Series Resistance (ESR): 150% or less of initial specified value

4) Leakage current: less of initial specified value

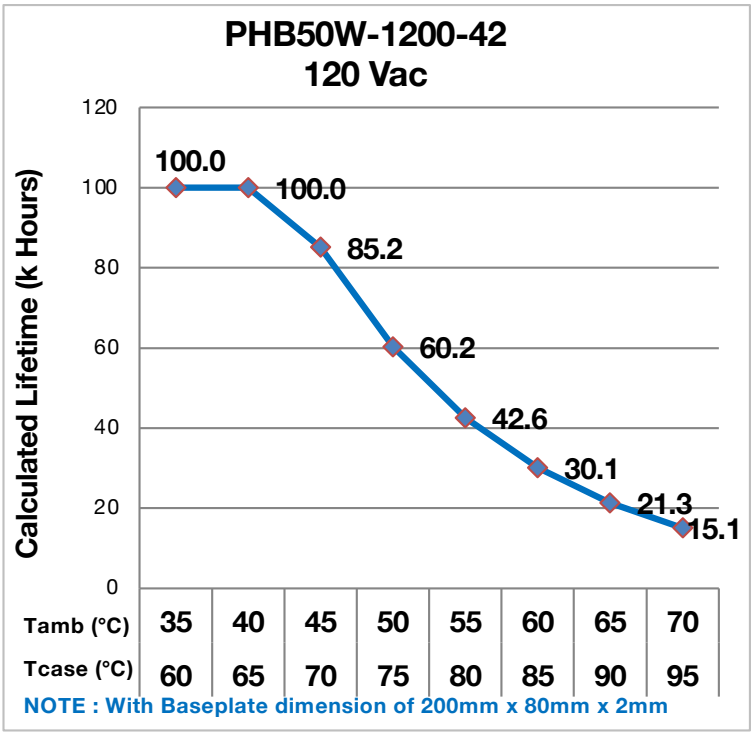


Figure 8

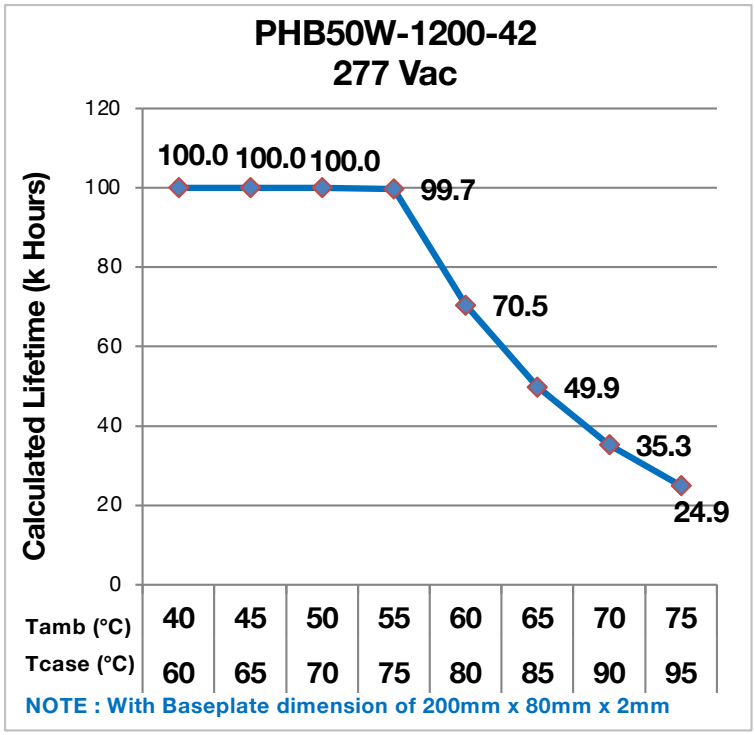


Figure 9

Notes:

- *The ambient temperature $T_{ambient}$ and the differential between $T_{ambient}$ and T_{case} mentioned in the above graphs are relevant only as long as both the driver and the light fixture are exposed to the same ambient room temperature. If the LED driver is housed in an enclosure or covered by insulation material, then the ambient room temperature is no longer valid. In this situation, please refer only to the case temperature T_{case}.*
- *It should be noted the graph "Lifetime vs. Ambient Temperature" may have an error induced in the final application if the mounting has restricted convection flow around the case. For applications where this is evident, the actual case temperature measured at the Tc point in the application should be used for reliability calculations.*

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15 – EFFICIENCY VERSUS LOAD

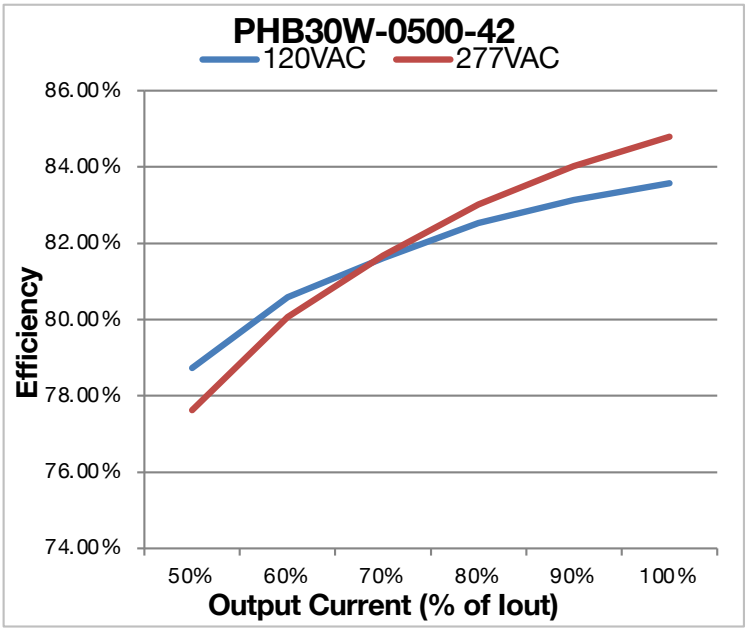


Figure 10

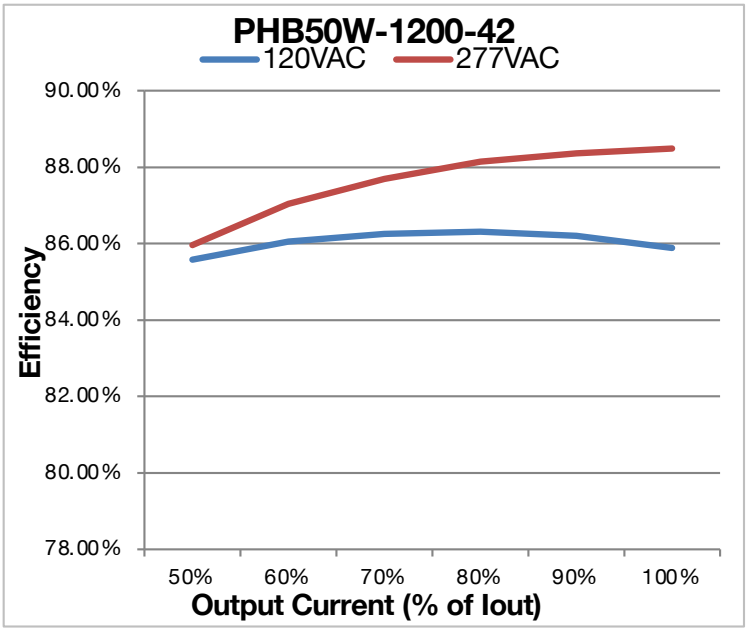


Figure 11

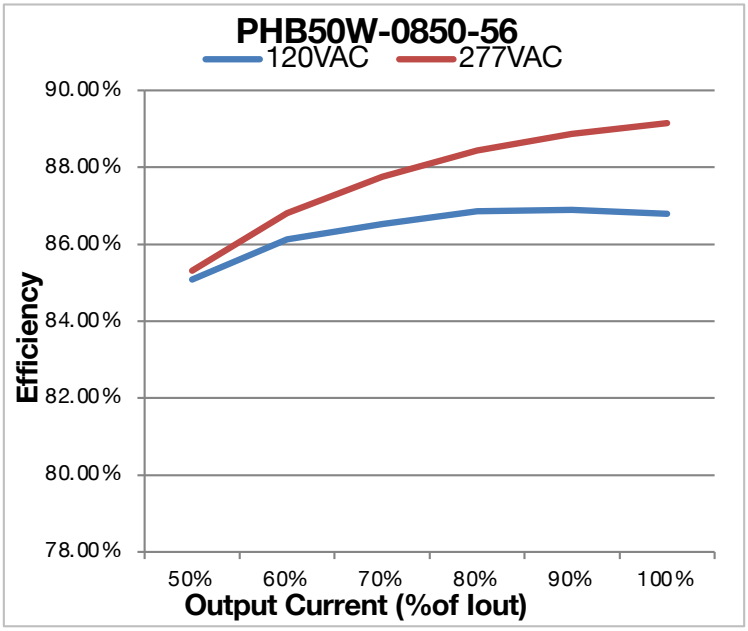


Figure 12

High Performance Programmable CC Class 2/Class II LED Driver with Tri-Mode Dimming™ (TRIAC, ELV & 0-10 V)

16 – POWER FACTOR VERSUS LOAD

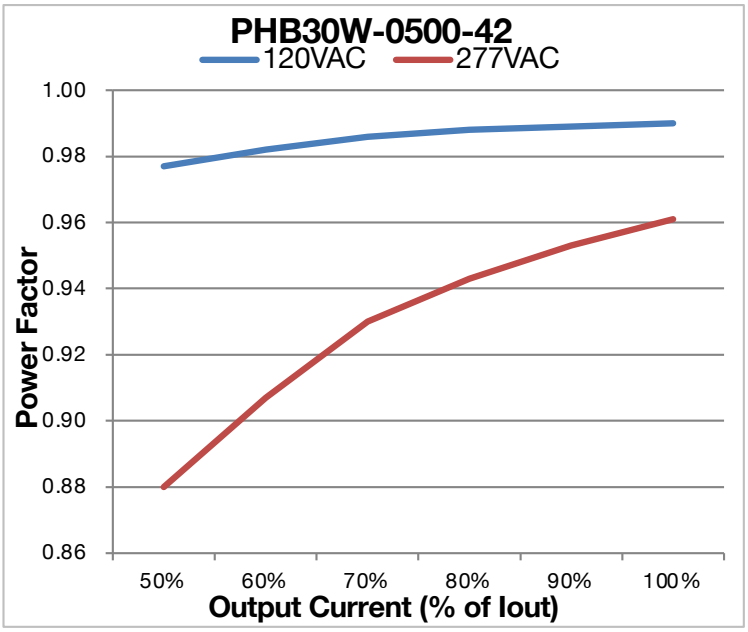


Figure 13

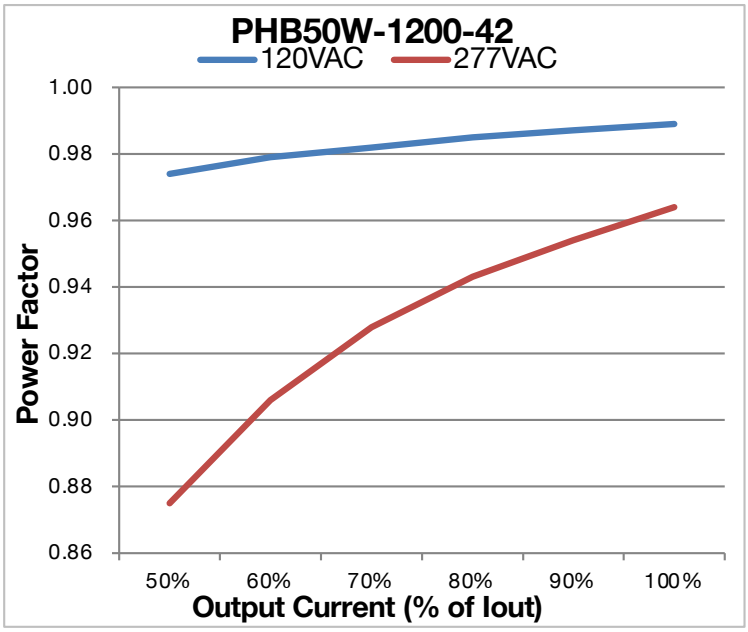


Figure 14

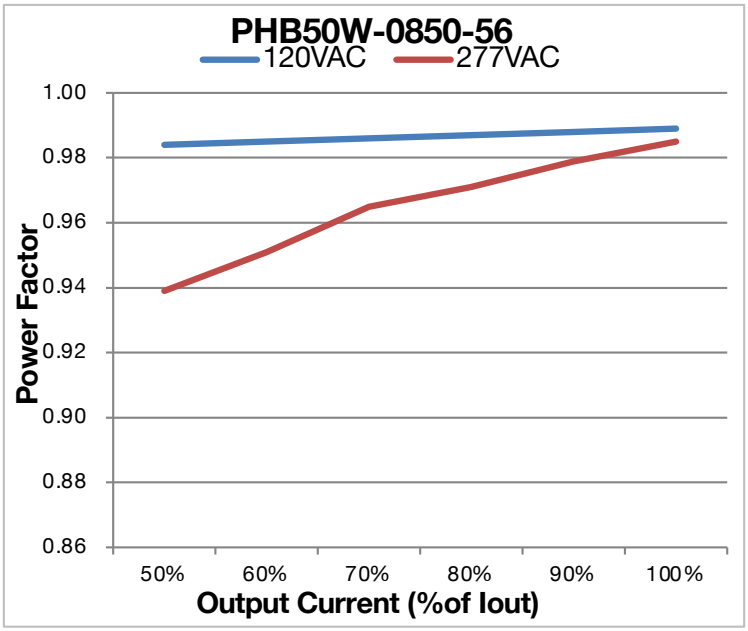


Figure 15

High Performance Programmable CC Class 2/Class II LED Driver with Tri-Mode Dimming™ (TRIAC, ELV & 0-10 V)

17 – THD VERSUS LOAD

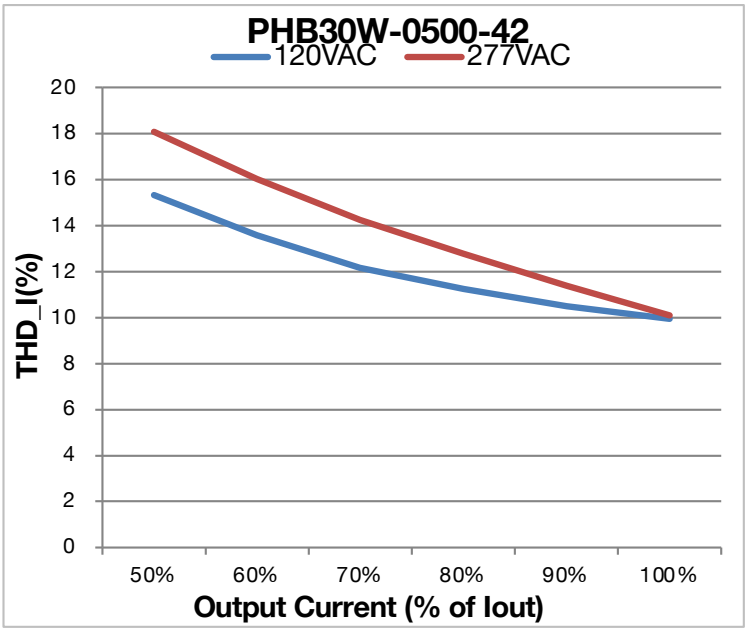


Figure 16

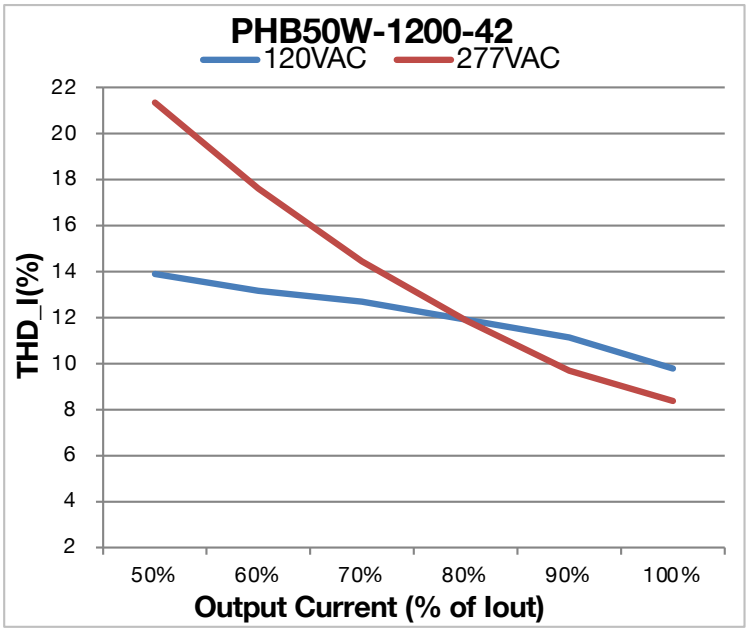


Figure 17

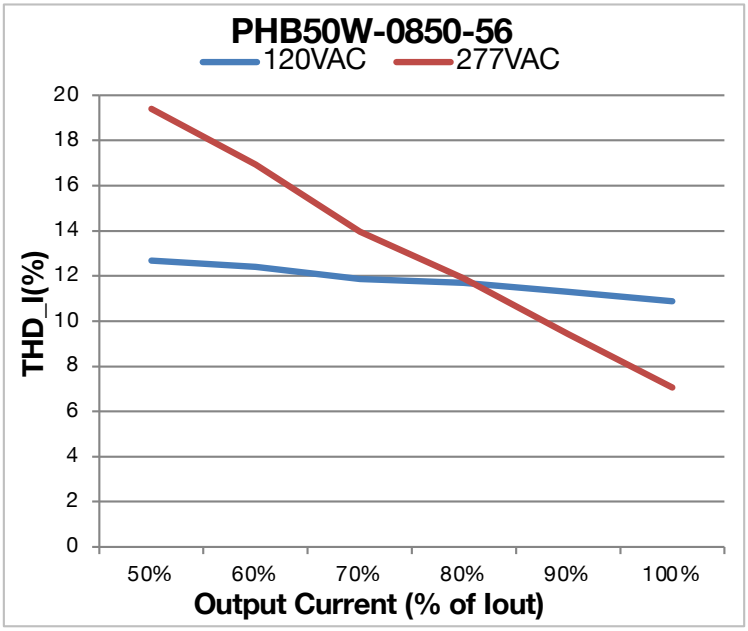


Figure 18

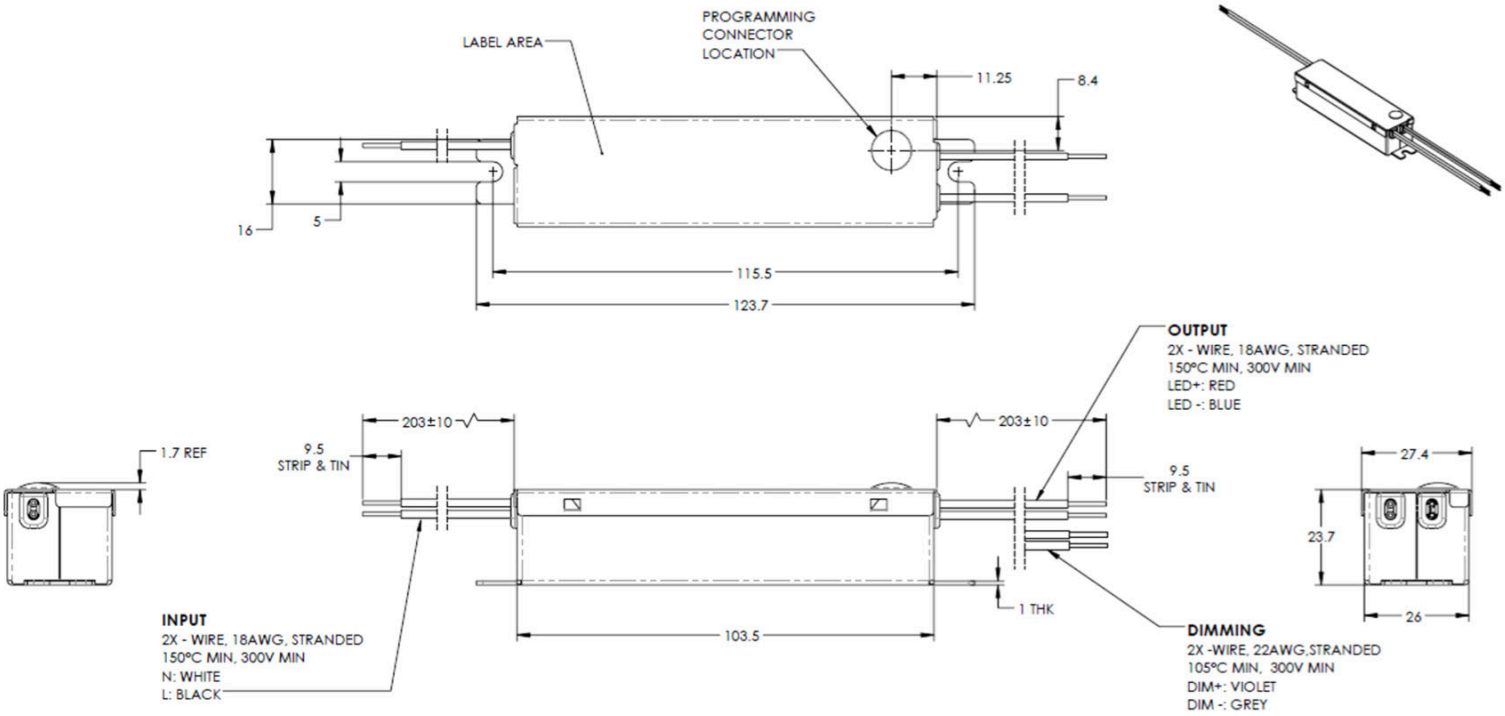
High Performance Programmable CC Class 2/Class II LED Driver with Tri-Mode Dimming™ (TRIAC, ELV & 0-10 V)

18 - MECHANICAL DETAILS

- **Packaging:** Aluminum case
- **I/O Connections:**
  - **Models with flying leads:** 18 AWG on all leads, 22 AWG on 0-10V dimming wires, 203mm (8 in) long, 105°C rated, stranded, stripped by approximately 9.5 mm, and tinned. All the wires, on both input and output, have a 300 V insulation rating.
  - **Models with "S" suffix**: Bottom Leads with Studs
- **Ingress Protection:** IP20 rated
- **Mounting Instructions**: The PHB50/30 driver case must be secured on a flat surface through the two mounting tabs, shown here below in the case outline drawings.

19 - OUTLINE DRAWINGS (MODELS WITH FLYING LEADS)

Dimensions: L 103.5 * W 26.0 * H 23.7 mm (L 4.07 * W 1.02 * H 0.93 in.)
Volume: 63.78 cm³ (3.89 in³)
Weight: 120 g (4.23 oz)



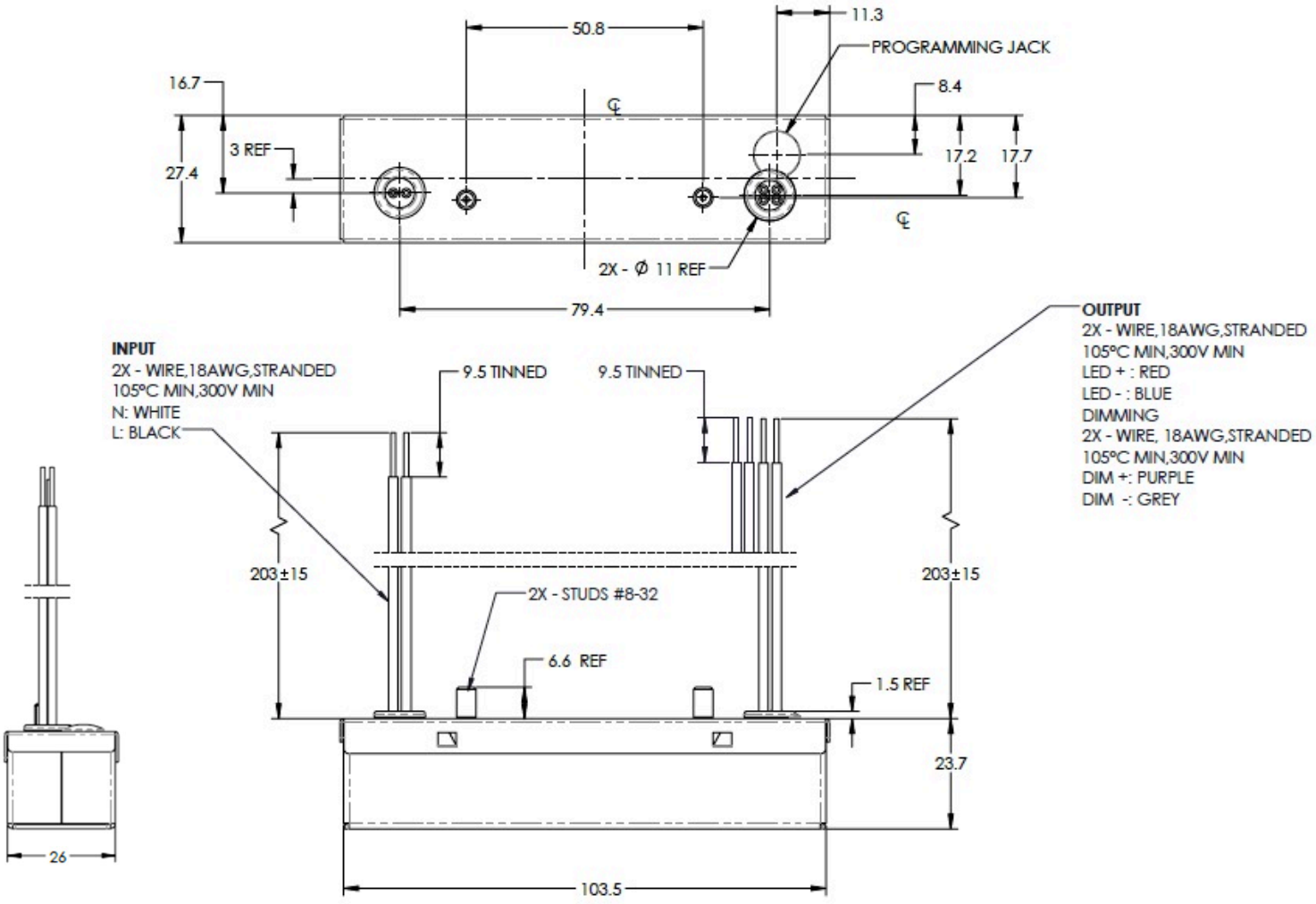
All dimensions are in mm

Figure 19

High Performance Programmable CC Class 2/Class II LED Driver with Tri-Mode Dimming™ (TRIAC, ELV & 0-10 V)

20 - OUTLINE DRAWINGS (MODELS WITH "-S" SUFFIX)

Dimensions: L 103.5 * W 26.0 * H 23.7 mm (L 4.07 * W 1.02 * H 0.93 in.)
Volume: 63.78 cm³ (3.89 in³)
Weight: 120 g (4.23 oz)



All dimensions are in mm

Figure 20

High Performance Programmable CC Class 2/Class II LED Driver with Tri-Mode Dimming™ (TRIAC, ELV & 0-10 V)

18 - LABELING

The PHB50W-1200-42 is used in figure 21 as an example to illustrate a typical label.

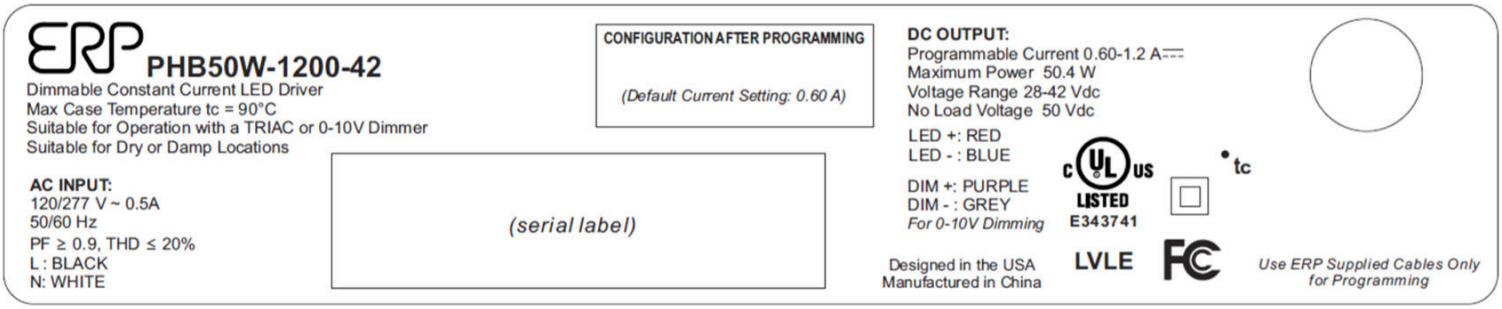


Figure 21

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Moorpark, CA 93021, USA

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High Performance Programmable CC Class 2/Class II LED Driver with Tri-Mode Dimming™ (TRIAC, ELV & 0-10 V)

Revision History

Date	Comments
19MAR2019	• Initial release
28JUN2019	• Pg7: Updated dimmer list • Pg8: Created page 8, detailing conduction angle customization • Pg11-14: Formatting changes
25MAR2020	• Pg1: Updated features • Pg6: Updated standard compliance
21JUL2020	• Pg2: Added default programmed current column
21SEP2020	• Various grammar changes
08APR2021	• Pg2: Added Vout max. note