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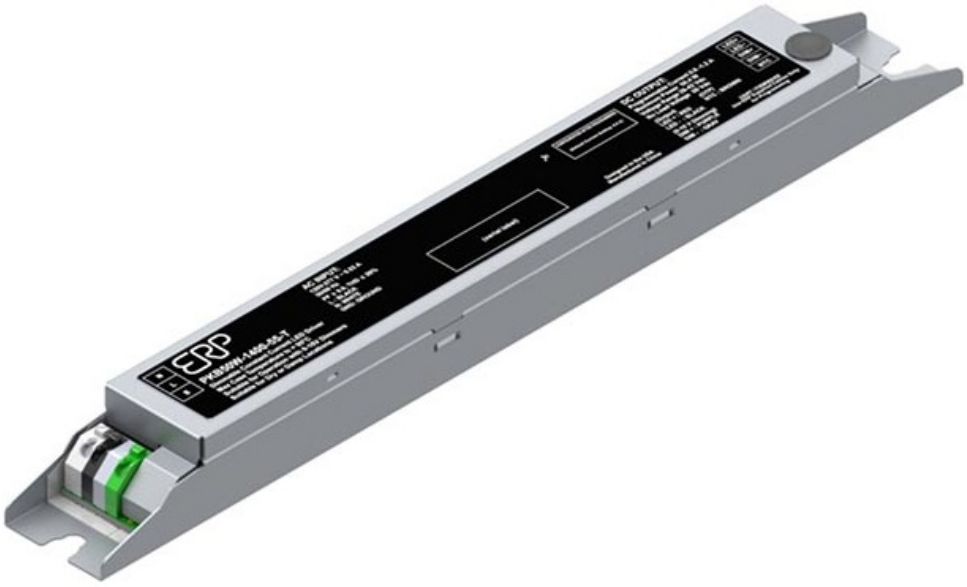
ERP POWER PLUS LIGHT PLS Series Optional Auxiliary Output

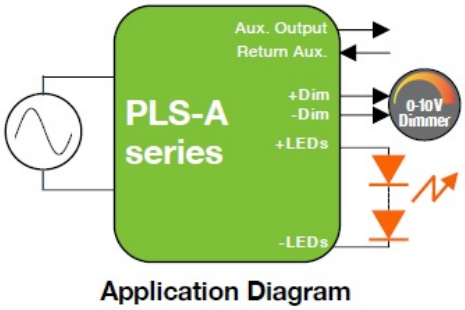


Product Usage Instructions

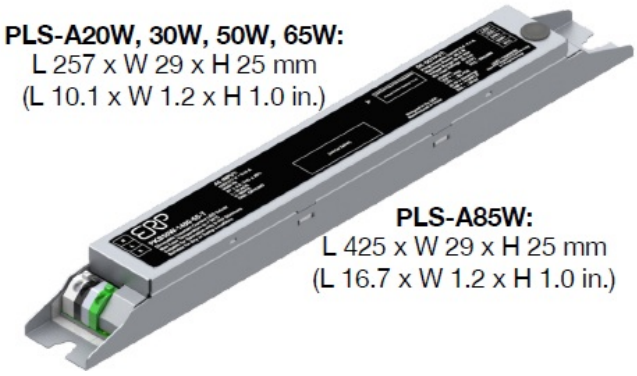
- Ensure input voltage is within the range of 120 – 277 Vac.
- Connect the appropriate wiring according to the provided wiring diagram.
- Secure the LED driver in a suitable location with proper ventilation to prevent overheating.
- Use the ERP LED Driver Configuration Tool (ERP GUI) to program the output current as needed.
- Ensure programmed values are within specified limits for optimal performance.
- To dim the LEDs connected to the driver, use a compatible 0-10 V dimmer.
- Adjust the dimming level between 1% and 100% as desired.
- If utilizing the optional auxiliary output, connect the auxiliary devices following the provided guidelines for proper functionality.

Input Voltage	Max. Output Power	Efficiency	Max. Case Temperature	THD	Power Factor	Dimming Method	Dimming Range	Start-up Time

120 – 277 Vac	85 W	up to 87% typical	90°C (measured at the hot spot)	< 20 % @ max load	> 0.9	Programmable 0 – 10 V	1 – 100%	300 ms typical



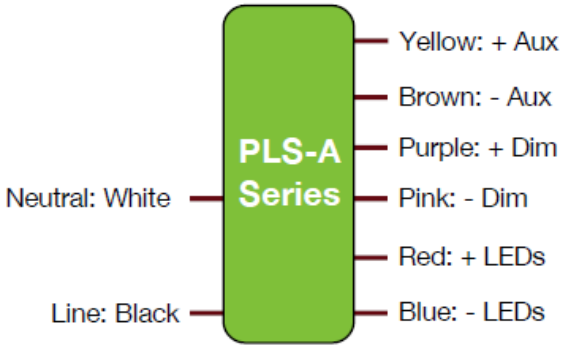
Application Diagram



FEATURES

- Meets IEEE 1789-2015 “no impact” recommended practices for flicker
- UL8750 Class P, Class 2 power supply
- Programmable dim-to-off
- Optional programmable auxiliary output
- Synchronized start-up: 20 ms
- Lifetime: 50,000 hours @ Tc ≤ 75°C
- 90°C maximum case hot spot temperature
- Surge protection:
- IEC61000-4-5: 6 kV line to line/6 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®), and CA Title 24 technical requirements

Wiring Diagram



PROGRAMMING

- Audio jack and cradle programming
- Current: see page 2 for current range
- Fully programmable and selectable 0-10V dimming profiles: Non-linear with dim-to-off, Logarithmic, Non-linear without dim-to-off.
- Data log read: SKU, S/N, lot code, hours of operation, FW rev., power cycles

APPLICATIONS

- Commercial & residential lighting
- Architectural lighting
- Indoor Lighting

ORDERING INFORMATION

Part Number	Input Voltage (Vac)	Max Output Power (W)	Iout (mA)[1]	Default Programmed Current (mA)	Vout Min. (Vdc)	Vout Nom. (Vdc)	Vout Max. (Vdc)[2]	Open Loop (No Load) Voltage (Vdc)	Notes
Up to 20W									

PLS-A20W-07-55-TZ	120 – 277	20	100 to 700	350	10	49.5	55	60	
PLS-A20W-07-55-TXZ	120 – 277	20	100 to 700	350	10	49.5	55	60	Auxiliary Output
21 to 30W									
PLS-A30W-10-55-TZ	120 – 277	30	275 to 1050	700	10	49.5	55	60	
PLS-A30W-10-55-TXZ	120 – 277	30	275 to 1050	700	10	49.5	55	60	Auxiliary Output
31 to 50W									
PLS-A50W-14-55-TZ	120 – 277	50	500 to 1400	1050	10	49.5	55	60	
PLS-A50W-14-55-TXZ	120 – 277	50	500 to 1400	1050	10	49.5	55	60	Auxiliary Output
51 to 65W									
PLS-A65W-18-55-TZ	120 – 277	65	600 to 1800	1200	10	49.5	55	60	
PLS-A65W-18-55-TXZ	120 – 277	65	600 to 1800	1200	10	49.5	55	60	Auxiliary Output
66 to 85W									
PLS-A85W-23-55-TXZ	120 – 277	85	700 to 2300	1400	10	49.5	55	60	Auxiliary Output

Notes

1. The ERP LED Driver Configuration Tool (ERP GUI) allows programming of the output

current to values below the minimum limits specified in the table above. However, when the programmed output current is set below these minimum thresholds, the LED driver's Total Harmonic Distortion (THD) and Power Factor (PF) may not meet the values defined in the INPUT SPECIFICATION section of this datasheet. For proper operation, please also refer to the OPERATING ENVELOPE for each part number, which defines the permissible ranges of output current and output voltage where THD and PF compliance is maintained.

2. 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.

ACCESSORIES

Notes:

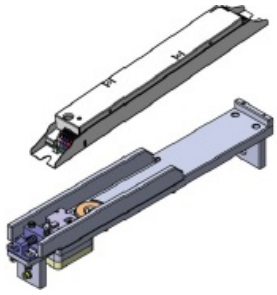
- Please order the programming cable using part number PROG-JACK-USB.
- The optional programming cradle can be ordered using part number PROG-CRADLE

Programming Cable

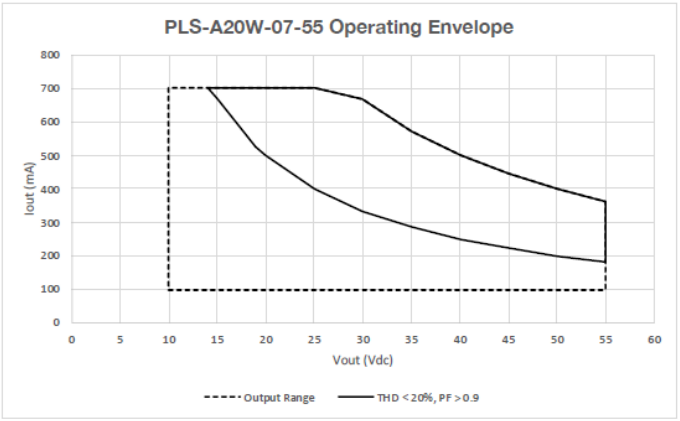
- Part number: PROG-JACK-USB

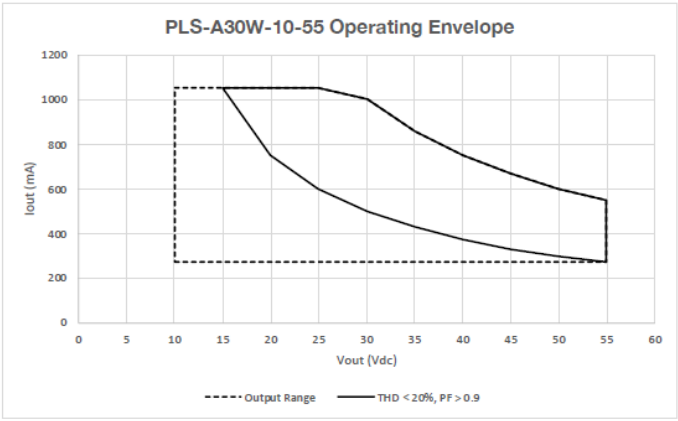
Programming Cradle

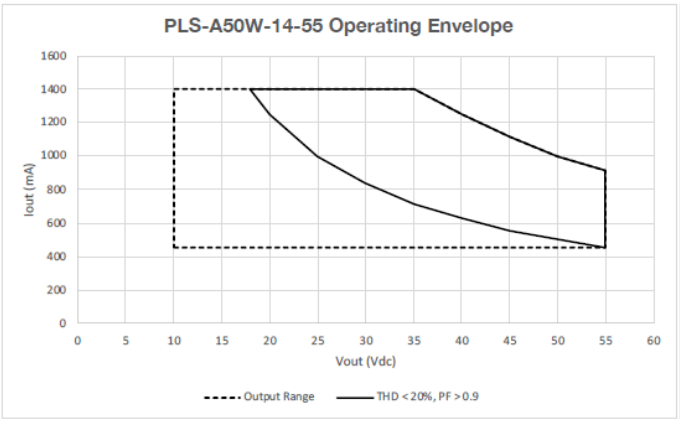
- Part number: PROG-CRADLE

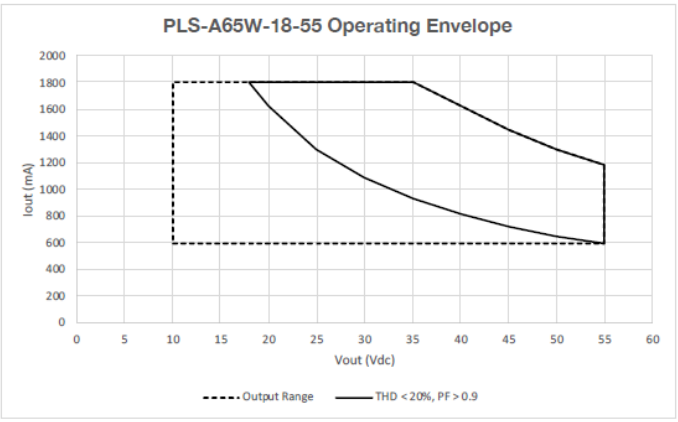


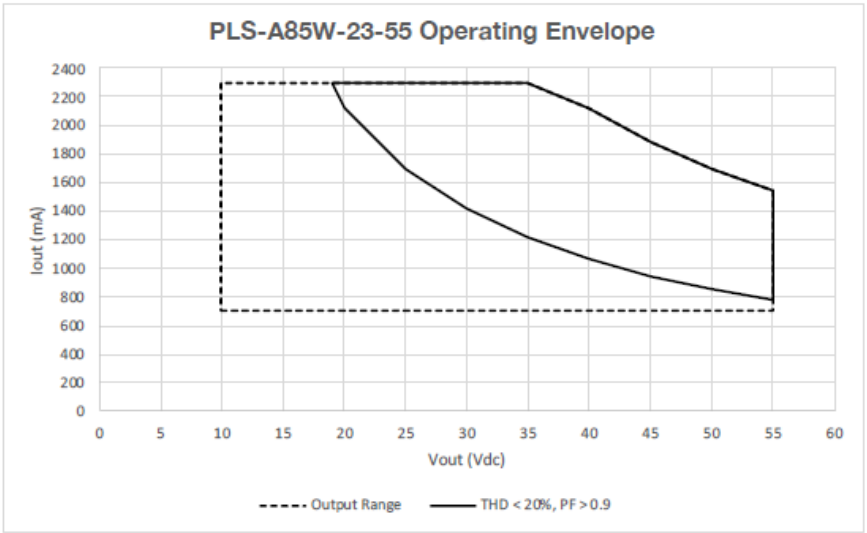
OPERATING ENVELOPES











SPECIFICATION

INPUT SPECIFICATION (@25°C ambient temperature)

	Units	Minimum	Typical	Maximum	Notes
Input Voltage Range (Vin)	Vac	108	120, 277	305	The rated output current for each model is achieved at Vin≥108 Vac, and at Vin≥249 Vac. At nominal load
Input Frequency Range	Hz	47	50/60	63	
Input Current (Iin)	A			0.7 A @ 120 Vac 0.35 A @ 277 Vac	
Power Factor (PF)		0.9	> 0.9		At nominal input voltage (120 & 277 Vac) and no dimmer From 100% to 50% of output power
Inrush Current	A	Meets NEMA-410 requirements			At any point on the sine wave and 25°C

Leakage Current	mA			0.4 mA @ 120 Vac 0.75 mA @ 277 Vac	Measured per IEC60950-1
Input Harmonics	Complies with IEC61000-3-2 for Class C equipment				
Total Harmonics Distortion (THD)				20%	At nominal input voltage (120 & 277 Vac) From 100% to 50% of output power Complies with DLC (Design Light Consortium) technical requirements
Efficiency	%	–	up to 87%	–	Measured with nominal input voltage, a full sinusoidal wave form and without dimmer attached.
Isolation	The AC input to the main DC output is isolated.				

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				By steps of 1 mA See ordering information for details Output voltage and current combination cannot exceed max power output. See page 3 for operating window The rated output current for each model is achieved at Vin≥108 Vac & Vin≥249 Vac.
Output Current Regulation	%	-3	±2	3	At nominal AC line voltage (120 & 277 Vac) Includes load and current set point variations
Output Current Overshoot	%	–	–	20	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	≤ 20% of rated output current for each model				Measured at nominal LED voltage and nominal input voltage without dimming Calculated in accordance with the IES Lighting Handbook, 9th edition Meets IEEE 1789-2015 “no impact” recommended practices for flicker

Dimming Range	%	1		100	The dimming range is dependent on each specific dimmer. It may not be able to achieve 1% dimming with some dimmers. When testing, if light is measured, dimming range is based on light output. If no light is measured, dimming range is based on percentage of output current. 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	Without any dimmer attached, and at nominal input voltages and nominal load Synchronized start-up of 20 ms when multiple drivers on same circuit Measured from application of AC line voltage to continuous light output Complies with ENERGY STAR® luminaire specification and CA Title 24
Isolation	The main DC output is isolated from the AC input and meets UL8750 supplement SF requirements.				

AUXILIARY OUTPUT SPECIFICATION “-TXZ” MODELS ONLY (@25°C ambient temperature)

	Units	Minimum	Typical	Maximum	Notes
Auxilliary Output Voltage	Vdc	9.5	12	24	Default value is 12 V +/-10% voltage regulation Configurable through programming in 0.5 V increments
Auxilliary Output Current	mA			110 mA	Maximum power output is 1.2 W +/-10% current regulation

DIMMING CONTROL

DIMMING CONTROL (@25°C ambient temperature)

- In the PLS-A series, several 0-10V dimming profiles can be selected, such as a logarithmic profile, a non-linear profile with 1% minimum dimming, a non-linear profile with 10% minimum dimming, and an optional dim-to-off function.
- Furthermore, every point in the non-linear dimming profile can be programmed using the ERP Power LED Configuration software (ERP GUI).
- By default, the non-linear profile with 1% minimum dimming and NO dim-to-off is pre-loaded in the PLS-A series.

	Units	Minimum	Typical	Maximum	Notes

+Dim Signal, -Dim Signal	The PLS series operates only with 0-10 V 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	100% of output current between 10 V and 8 V, Linear between 8 V and 1 V, 1% of the output current below 1 V.				
Dimming Range	%	1		100	When testing, if light is measured, the dimming range is based on light output. If no light is measured, the dimming range is based on the percentage of output current.
High Level Voltage – A	V		8.0	8.1	Highest voltage available with programming: 8.5 V
Low Level Voltage – B	V	0.9	1.0		Lowest voltage available with programming: 0.1V
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			0.5	

Dimming Voltage Sensing Tolerance	mV			100	The tolerance of the difference between the 0-10 V signal supplied by the dimmer and sensed by the driver.
Output Current Tolerance While Being Dimmed	%		± 8		In the linear region of the dimming curve (between points A and B in Figure 1).
Minimum Dimming Tolerance	%	0.6	1	2	At point B, in Figure 1
Isolation	The 0-10 V circuit is isolated from the AC input and meets UL8750 supplement SF requirements.				

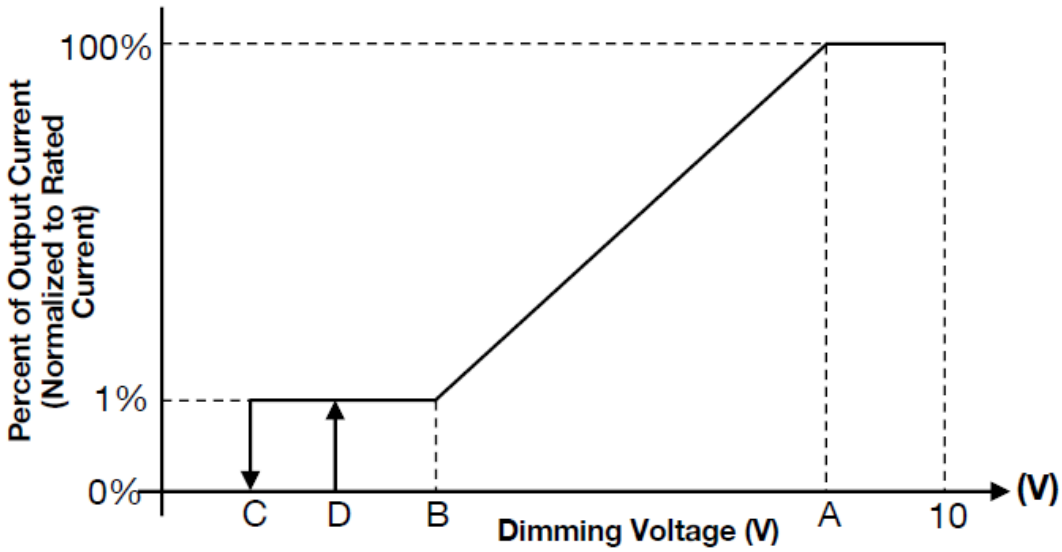


Figure 1

ENVIRONMENTAL CONDITIONS

	Units	Minimum	Typical	Maximum	Notes

Operating Ambient Temperature (Ta)	°C	-20		50	50°C is the non-derated temperature (Refer to section 11 ‘Output power protection’.)
Maximum Case Temperature (Tc)	°C			+90	Case temperature measured at the hot spot Ÿtc (see label in section 23)
Storage Temperature	°C	-40		+85	
Humidity	%	5	–	95	Non-condensing
Cooling	Convection cooled				
Acoustic Noise	dBA			24	Measured at a distance of 1 foot, without a 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 spottc on label in section 23)				
Warranty	5 years. Users must utilize proper thermal management techniques to ensure proper thermal conductivity between the driver and heat sink. The use of double-sided tape to mount the driver voids the warranty.				

EMC COMPLIANCE, SAFETY, AND ENVIRONMENTAL APPROVALS

EMC Compliance			
Conducted and Radiated EMI	Compliant with FCC CFR Title 47 Part 15 Class A at 120 & 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	± 6 kV line to line (differential mode) /± 6 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

Safety & Environmental Approvals	
UL	UL8750 listed Class 2, supplement SF
cUL	CAN/CSA C22.2 No. 250.13-14 LED equipment for lighting applications

Safety					
	Units	**Minimum**	**Typical**	**Maximum**	**Notes**
Hi Pot (High Potential) or **Dielectric voltage-withstand**	Vdc	2200			Tested at the RMS voltage equivalent of 1555 Vac

DIMMING FEATURES

Synchronized Start-up

- The PLS-A series incorporates a synchronized start-up feature.
- When wired into the same dimmer, multiple PLS-A series drivers will dim to the same level and turn on within 20 ms of each other.

Fully Programmable Dimming Curve

- In the PLS-A series, several 0-10V dimming profiles can be selected, such as a logarithmic profile, a non-linear profile with 1% minimum dimming, and a non-linear profile with 10% minimum dimming.
- Furthermore, every point in the non-linear dimming profile can be programmed using

the programming software.

PROTECTION FEATURES

Input Overcurrent Protection

- The PLS-A series incorporates a primary AC line fuse for input overcurrent protection to prevent damage to the LED driver and meet product safety requirements as outlined in Section 8.

Short Circuit and Overcurrent Protection

- The PLS-A 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 Overtemperature Protection

- The PLS-A 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 PLS-A series is typically limited to 60 V, to meet Class 2 standard.

OUTPUT POWER PROTECTION

De-Rating At Elevated Temperatures

- The PLS-A series can be operated with cooling air temperatures above 50°C by linearly de-rating the total maximum output power (or current) by 2.5%/°C until internal over-temperature protection activates.

Output Over-Power Protection

- At turn-on with nominal AC input, the PLS-A' output power shall be clamped to 100%.

DIMMING

- The PLS-A series operate only with 0-10 V dimmers that sink current. They are not designed to operate with 0-10 V control systems that source current, as used in theatrical/entertainment systems. Developed in the 1980's, the 0-10 V 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. If the +Dim input is > 10 V or open circuited, the output current is programmed to 100% of the rated current.
  0-10V dimming is isolated from AC input and DC output for -TPZ models and isolated from AC input for -TZ and TXZ models.
- The maximum source current (flowing from the driver to the 0-10 V dimmer) supplied by the +Dim Signal pin is ≤ 0.5 mA. The tolerance of the output current while being dimmed shall be +/-8% typical until down to 1 V.
- In the PLS-A series, several 0-10 V dimming profiles can be selected, such as a logarithmic profile, a non-linear profile with 1% minimum dimming, and a non-linear profile with 10% minimum dimming.
- By default, the non-linear profile with 1% minimum dimming and NO dim-to-off is pre-loaded in the PLS-A series. In this non-linear 0-10 V dimming profile, 10 V to 8 V=100% of the output current, <1 V =1%.

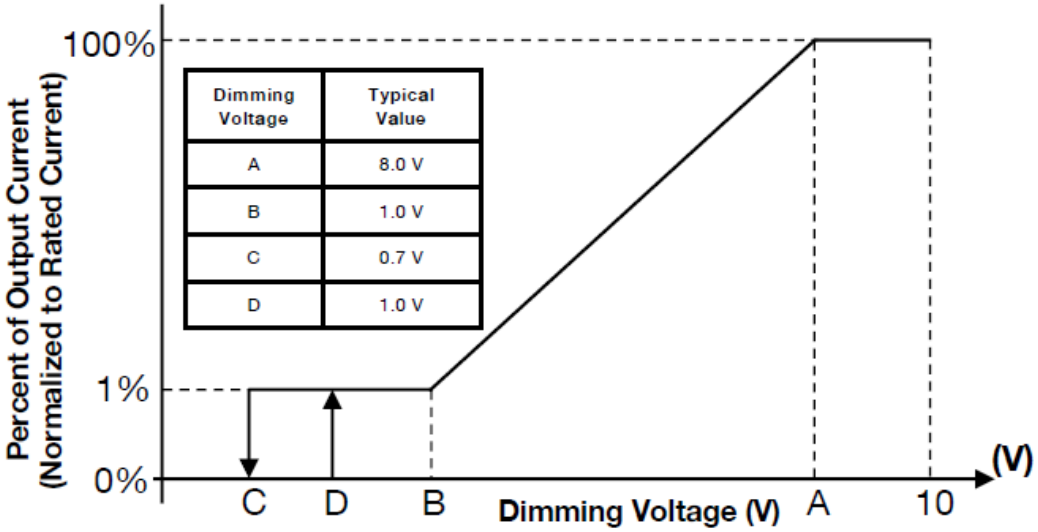


Figure 2

COMPATIBLE 0-10 V DIMMERS

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

PROGRAMMING

- The PLS-A series can be programmed by inserting the audio jack of the cable shown here below into the driver and by plugging the USB other end of the cable into a computer. The driver should not be powered on during the programming process.
- When ordering the PLS-A series, please make sure to order a programming cable. The part number for the programming cable is “PROG-JACK-USB”. Additionally, there is an optional programming cradle intended for higher volume use that can be ordered using the part number “PROG-CRADLE”.
- Programming is done by using the ERP LED Driver Configuration Tool (also known as ERP GUI), downloadable through the ERP website (https://www.erp-power.com/erp-light-engines/led-light-programming-software/), which enables the user to adjust output current and dimming profile.
- Please note that, for each model, the default output current setting is listed on page 2 of this datasheet.
- 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

power cycles.

- While programming drivers in a lot, the ERP GUI can interface with a label printer, which enables the user to add configuration labels to driver labels in order to highlight programmed output current. Listed below is the equipment needed to print labels.

Equipment	Part Number	Where to buy
Printer	TSC TC210	barcodefactory.com/tsc/printers/tc210/99-059a001-54lf
Ribbon	TSC Prem. Resin, 60mm x 110 mm	barcodefactory.com/tsc/35-r060110-23cf
Labels	BAR-.81x.28-1-TT	barcodefactory.com/barcodefactory/labels/bar-_81x_28-1-tt

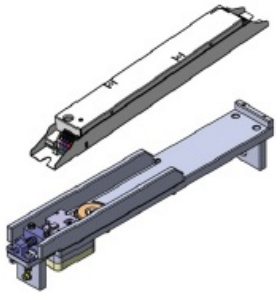
For more information, please refer to the ERP LED Driver Configuration Tool user's manual at: (https://www.erp-power.com/erp-light-engines/led-light-programming-software/).

Programming Cable

- Part number: PROG-JACK-USB

Programming Cradle

- Part number: PROG-CRADLE



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 4 and 5 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
4. Leakage current: less of initial specified value

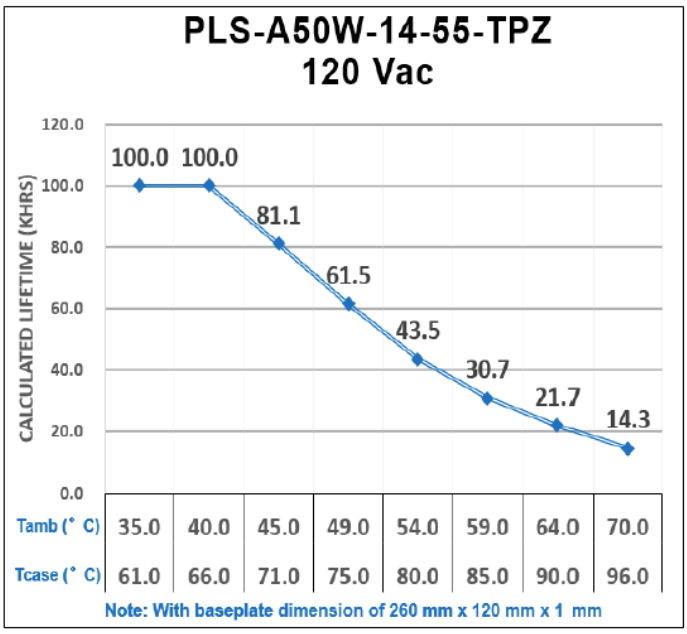


Figure 4

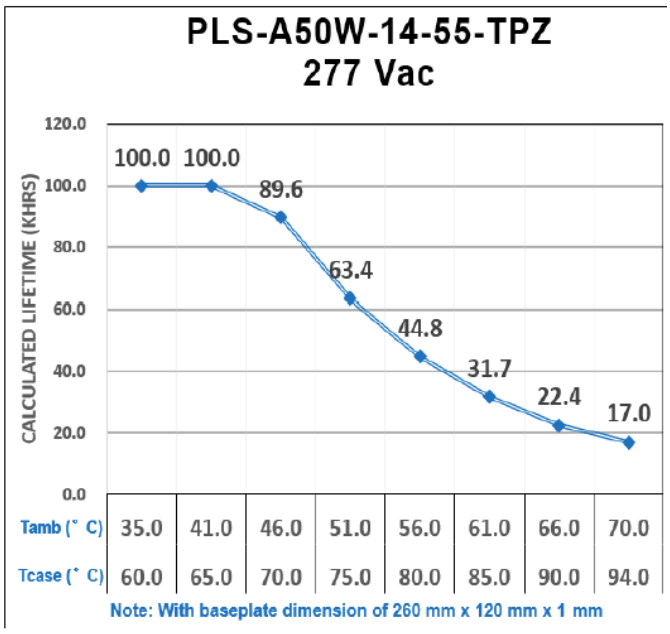


Figure 5

Notes

- The ambient temperature Tambient and the differential between Tambient and Tcase 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 Tcase.
- 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.
- Users must utilize proper thermal management techniques to ensure proper thermal conductivity between the driver and heat sink. The use of double-sided tape to mount the driver voids the warranty.

EFFICIENCY VERSUS OUTPUT VOLTAGE (100% OF IOUT)

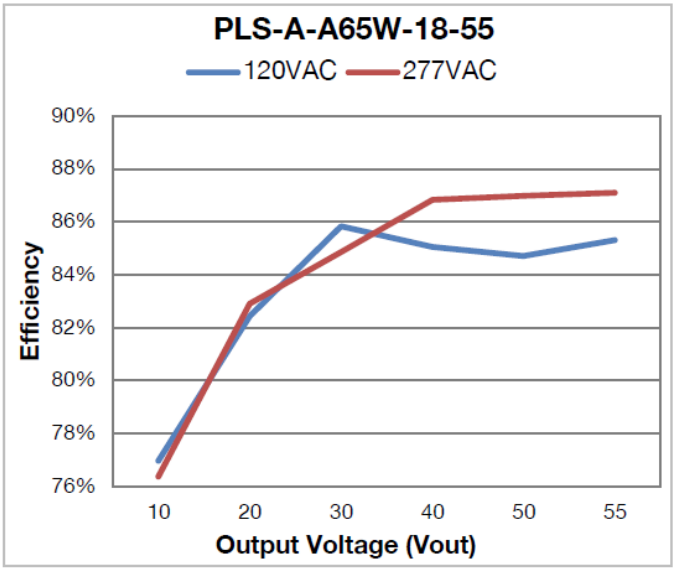


Figure 6

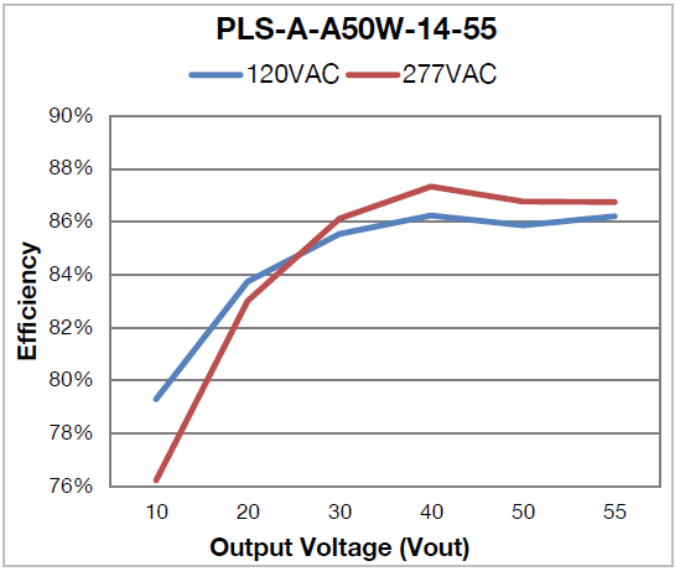


Figure 7

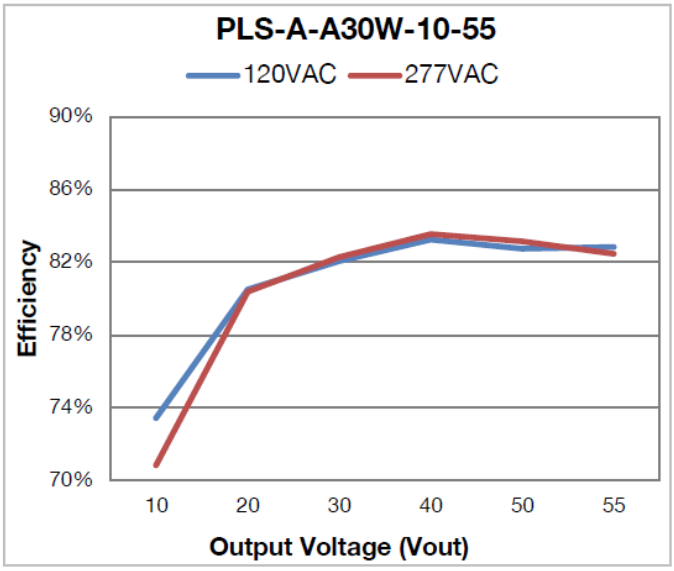


Figure 8

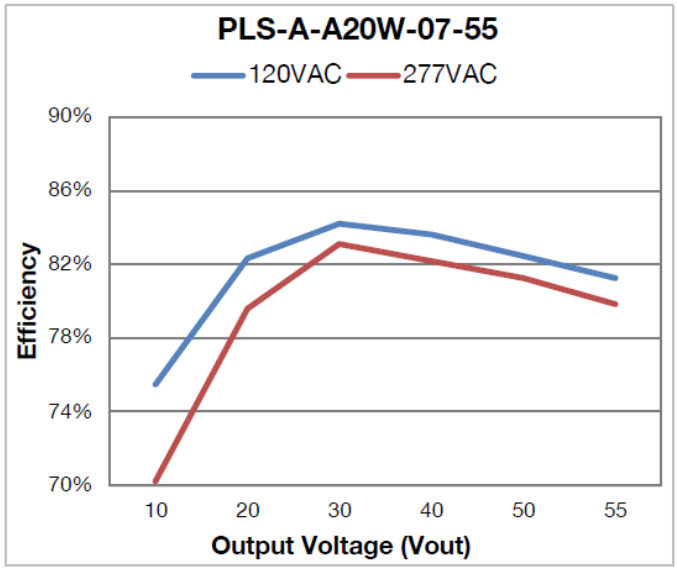


Figure 9

POWER FACTOR VERSUS OUTPUT VOLTAGE (100% OF IOUT)

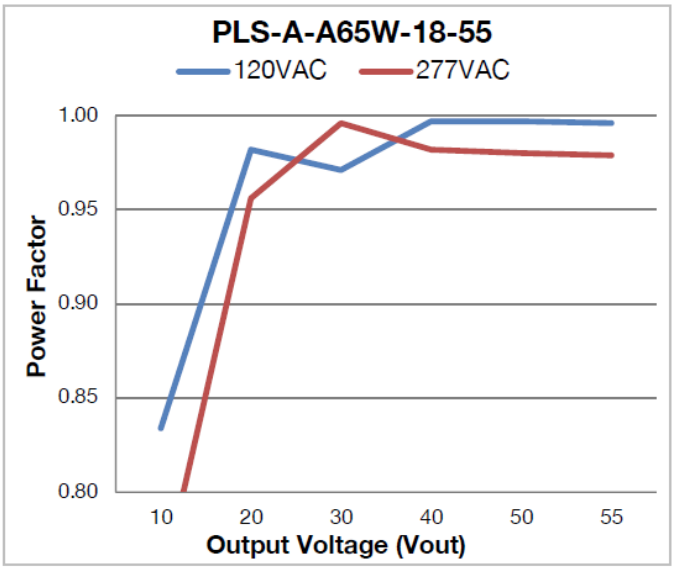


Figure 10

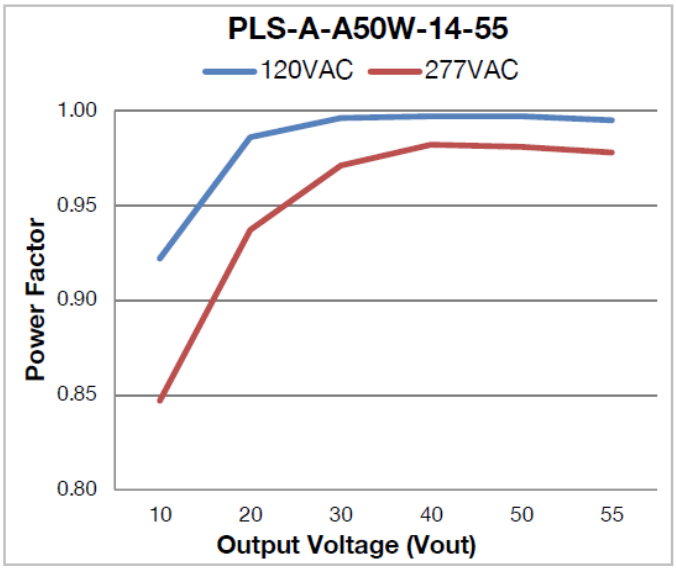


Figure 11

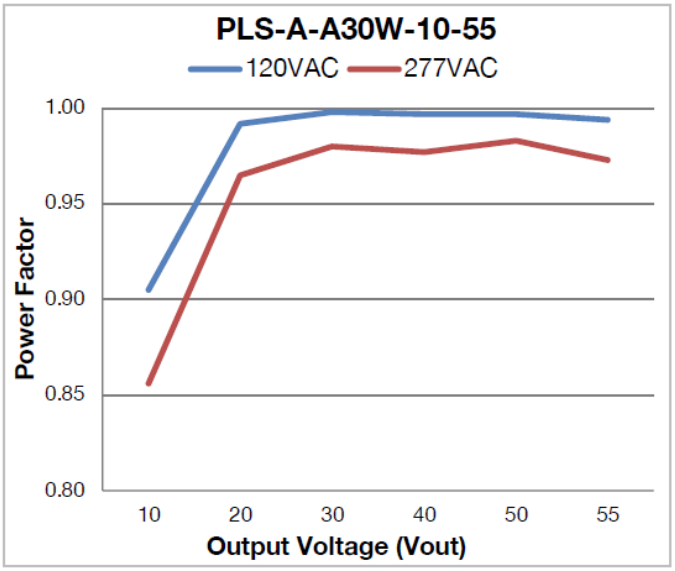


Figure 12

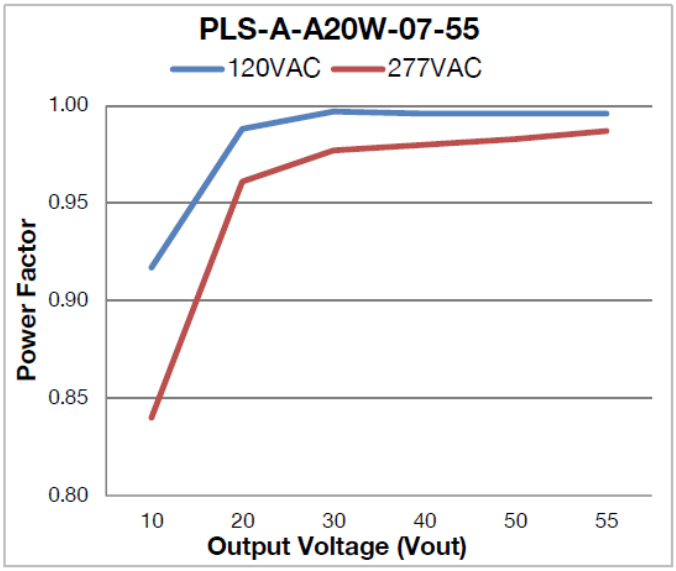


Figure 13

THD VERSUS OUTPUT VOLTAGE (100% OF IOUT)

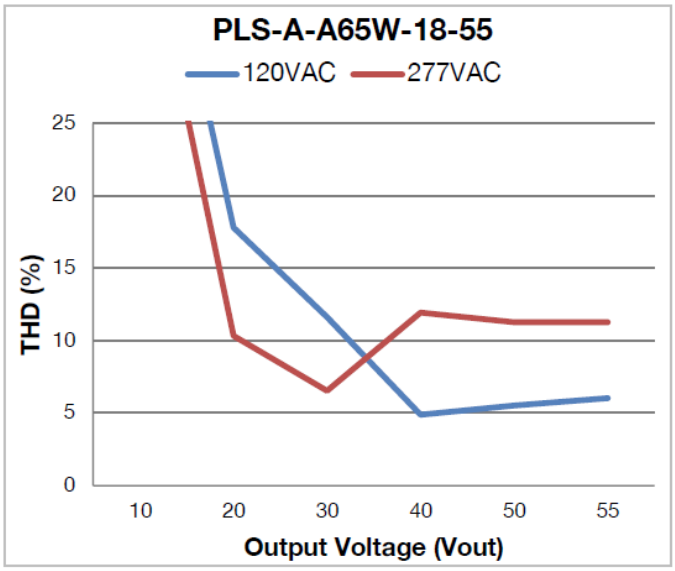


Figure 14

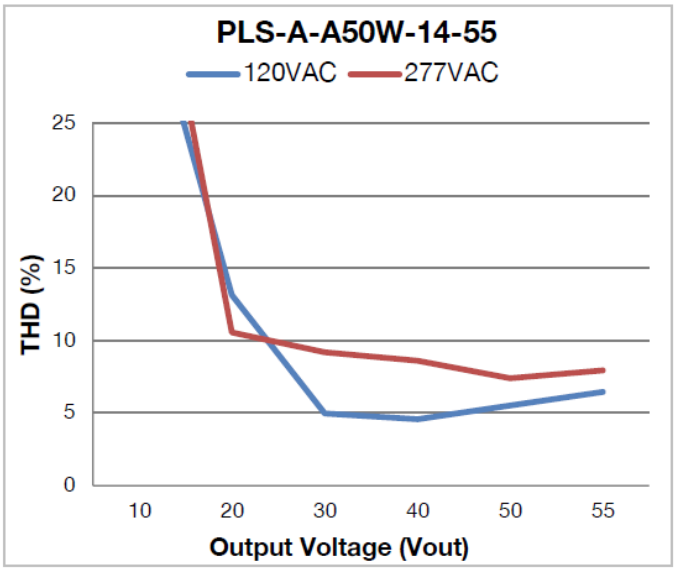


Figure 15

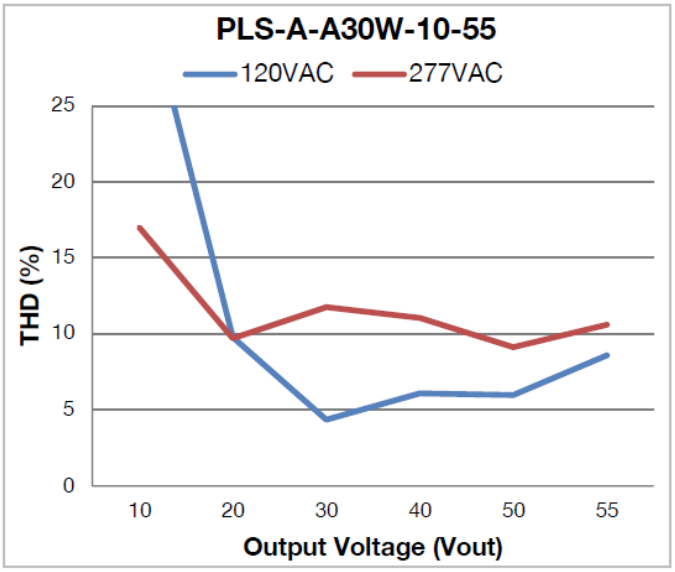


Figure 16

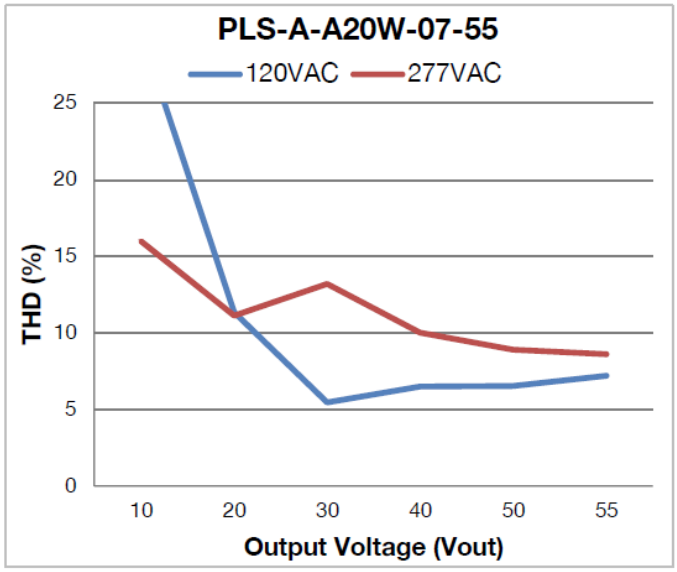


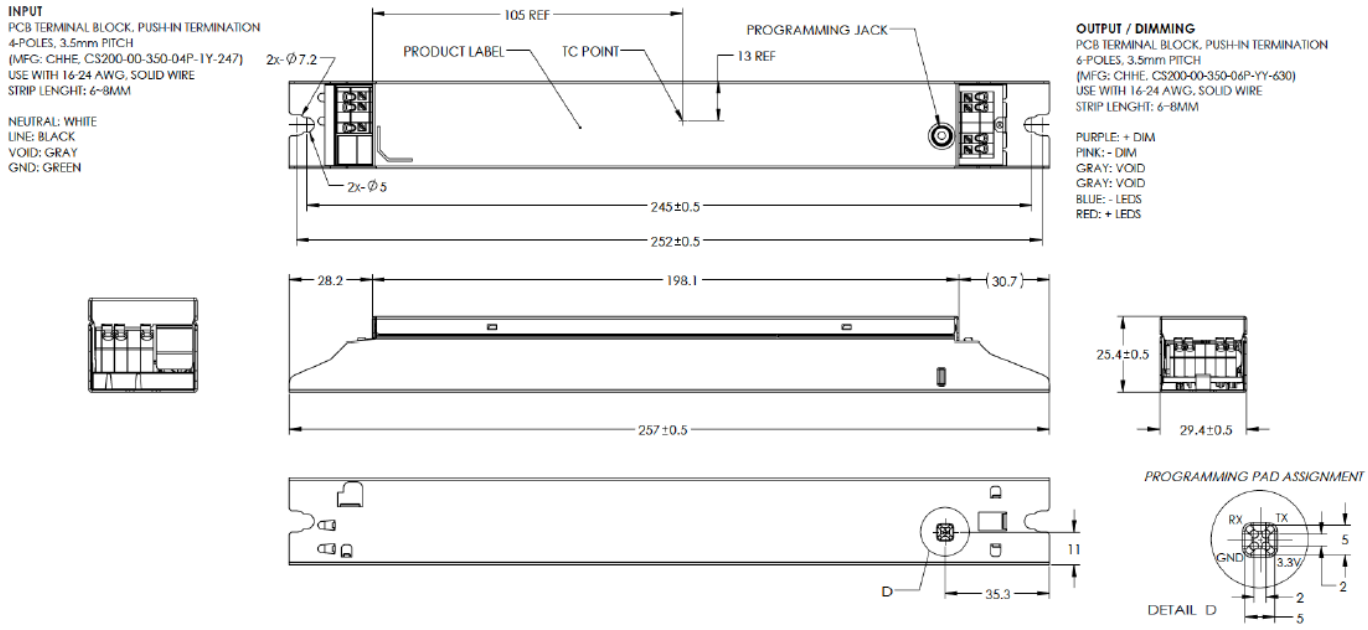
Figure 17

MECHANICAL DETAILS

MECHANICAL DETAILS “-TZ” MODELS (PLS-A-A20W, PLS-A-A30W, PLS-A-A50W, PLS-AA65W)

- Dimensions: L 257 x W 29 x H 25 mm (L 10.1 x W 1.2 x H 1.0 in.)
- Volume: 190 cm3 (11.6 in3)
- Weight: 240 g (8.5 oz)
- Packaging: Aluminum case
- I/O Connections: Terminal Blocks
- Ingress Protection: IP20 rated

- Mounting Instructions: The PLS-A driver case must be secured on a flat surface through the two mounting tabs, shown here below in the case outline drawings. The use of double-sided tape voids the warranty.

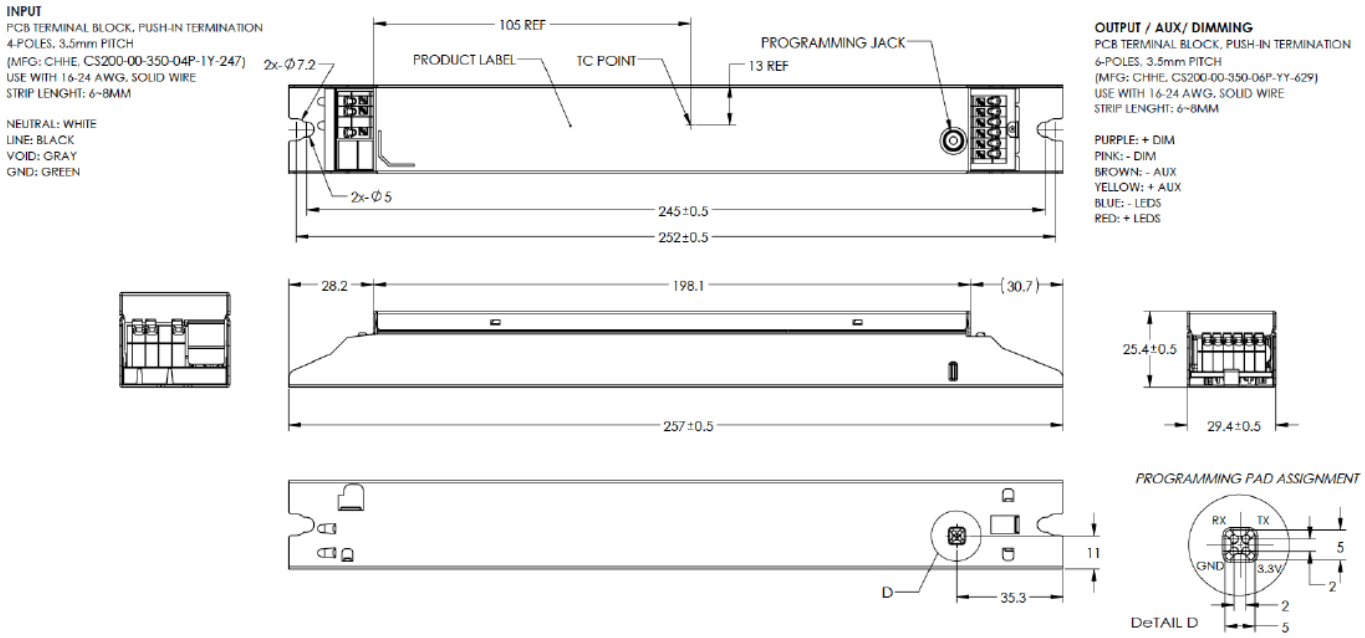


All dimensions are in mm

Figure 18

MECHANICAL DETAILS “-TXZ” MODELS (PLS-A-A20W, PLS-A-A30W, PLS-A-A50W, PLSA- A65W)

- Dimensions: L 257 x W 29 x H 25 mm (L 10.1 x W 1.2 x H 1.0 in.)
- Volume: 190 cm3 (11.6 in3)
- Weight: 240 g (8.5 oz)
- Packaging: Aluminum case
- I/O Connections: Terminal Blocks
- Ingress Protection: IP20 rated
- Mounting Instructions: The PLS-A driver case must be secured on a flat surface through the two mounting tabs, shown here below in the case outline drawings. The use of double-sided tape voids the warranty.

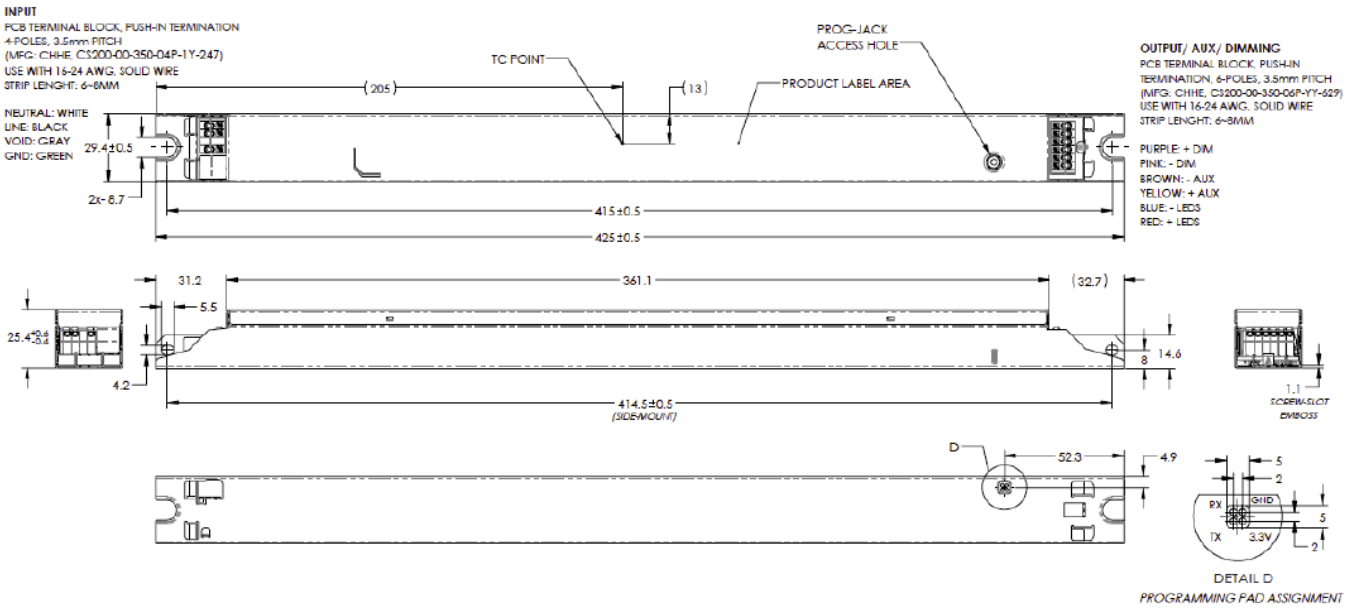


All dimensions are in mm

Figure 18

MECHANICAL DETAILS PLS-A-A85W MODELS

- Dimensions: L 425 x W 29 x H 25 mm (L 16.7 x W 1.2 x H 1.0 in.)
- Volume: 308 cm3 (20.0 in3)
- Weight: 410 g (14.5 oz)
- Packaging: Aluminum case
- I/O Connections: Terminal Blocks
- Ingress Protection: IP20 rated
- Mounting Instructions: The PLS-A driver case must be secured on a flat surface through the two mounting tabs, shown here below in the case outline drawings. The use of double-sided tape voids the warranty.



All dimensions are in mm

Figure 18

LABELING

- The PLS-A-A65W-18-55-TZ is used in figure 19 as an example to illustrate a typical label.

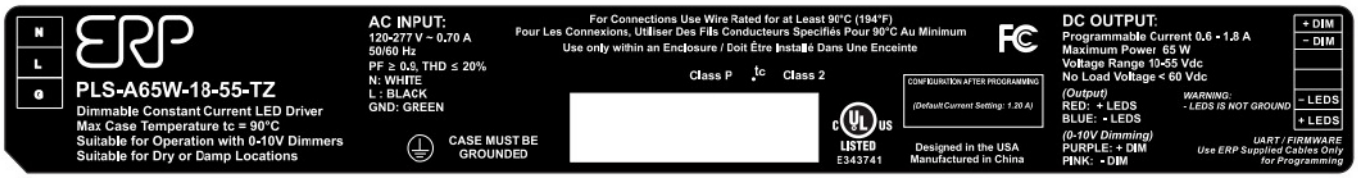


Figure 19

body, or other applications intended to support or sustain life, or for any other application in which the failure of the ERP product could create a situation where personal injury or death may occur. Should Buyer purchase or use ERP products for any such unintended or unauthorized application, Buyer shall indemnify and hold ERP and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that ERP was negligent regarding the design or manufacture of the part. ERP is an Equal Opportunity/Affirmative Action Employer.

Revision History

Date	Comments
06MAR2025	• Initial Release
18MAR2025	• Updated MCOs
20MAY2025	• Added PLS-A-A85W • Various Grammar Corrections
21AUG2025	• Updated part numbers
03SEP2025	• Added note (1) and note (2) in the ORDERING INFORMATION section

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FAQ

Q: Can I use this LED driver for outdoor applications?

A: The PLS-A Series LED drivers are designed for indoor use only and should not be exposed to outdoor elements.

Q: What is the warranty period for this product?

A: The warranty period for the PLS-A Series LED drivers is one year from the date of purchase. Please refer to the warranty terms for more details.

Documents / Resources

	ERP POWER PLUS LIGHT PLS Series Optional Auxiliary Output [pdf] Instruction Manual PLS-A20W, PLS-A30W, PLS-A50W, PLS-A65W, PLS-A85W, PLS Series Optional Auxiliary Output, PLS Series, Optional Auxiliary Output, Auxiliary Output, Output

References

- User Manual

ERP POWER PLUS LIGHT

Auxiliary Output, ERP POWER PLUS LIGHT, Optional Auxiliary Output, Output, PLS Series, PLS Series Optional Auxiliary Output, PLS-A20W, PLS-A30W, PLS-A50W, PLS-A65W, PLS-A85W

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