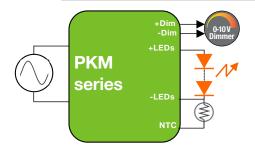


PKM30 30 W PKM50 50 W

50 & 30 W Programmable Constant Current Class 2 LED Driver with 0-10 V Dimming

| 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 0 - 10 V | 1 - 100% (% of lout) | 300 ms typical |



Terminal Blocks (-TD), Metal Case w/ Bottom Studs L 106.7 x W 60.3 x H 25.5 mm (L 4.20 x W 2.37 x H 1.00 in)





Side Leads, No Studs (-NS), Metal Case

L 106.7 x W 60.3 x H 25.3 mm (L 4.20 x W 2.37 x H 0.99 in)

FEATURES

UL Class P

- Class 2 output
- External NTC (negative temperature coefficient) functionality
- Lifetime: 5 years @ Tc ≤ 75°C
- 90°C maximum case hot spot temperature
- · 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

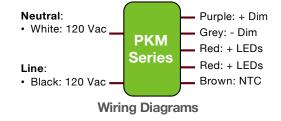
Bottom Leads (-SD),

Metal Case w/ Bottom Studs

L 106.7 x W 60.3 x H 25.3 mm

(L 4.20 x W 2.37 x H 0.99 in)

 Complies with DLC (DesignLight Consortium®) and CA Title 24 technical requirements



PROGRAMMING

- Audio jack programming
- · NTC derating profile
- · Current: see page 2 for current range
- 0-10V dimming profiles: Linear, Non-linear, Logarithmic
- Data log read: SKU, S/N, lot code, hours of operation, FW rev., power cycles

APPLICATIONS

- · Commercial & residential lighting
- · Architectural lighting
- Indoor Lighting









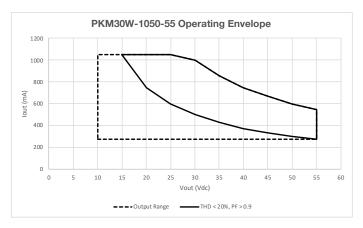
PKM30 30 W PKM50 50 W

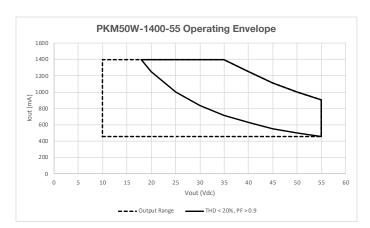
50 & 30 W Programmable Constant Current Class 2 LED Driver with 0-10 V Dimming

1 - ORDERING INFORMATION

| Part Number | Nominal Input Voltage (Vac) | Max Output Power (W) | lout (mA) | Default Programmed Current (mA) | Vout Min. (Vdc) | Nom. | Vout Max. (Vdc)* | Open Loop (No Load) Voltage (Vdc) | Notes | |
|-------------------|--------------------------------------|-------------------------------|--------------|--|-----------------------|------|------------------------|--|--------------------------|--|
| | | | | PKM30W | | | | | | |
| PKM30W-1050-55-SD | 120 & 277 | 30 | 275 to 1050 | 700 | 10 | 49.5 | 55 | 60 | Bottom leads w/ studs | |
| PKM30W-1050-55-TD | 120 & 277 | 30 | 275 to 1050 | 700 | 10 | 49.5 | 55 | 60 | Terminal blocks w/ studs | |
| PKM30W-1050-55-NS | 120 & 277 | 30 | 275 to 1050 | 700 | 10 | 49.5 | 55 | 60 | Side leads no studs | |
| | PKM50W | | | | | | | | | |
| PKM50W-1400-55-SD | 120 & 277 | 50 | 455 to 1400 | 1050 | 10 | 49.5 | 55 | 60 | Bottom leads w/ studs | |
| PKM50W-1400-55-TD | 120 & 277 | 50 | 455 to 1400 | 1050 | 10 | 49.5 | 55 | 60 | Terminal blocks w/ studs | |
| PKM50W-1400-55-NS | 120 & 277 | 50 | 455 to 1400 | 1050 | 10 | 49.5 | 55 | 60 | Side leads no 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.





Notes:

- 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.

Programming Cable

Part number: PROG-JACK-USB





PKM30 30 W PKM50 50 W

50 & 30 W Programmable Constant Current Class 2 LED Driver with 0-10 V Dimming

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 (lin) | А | | | 1.25 A @ 120 Vac 0.56 A @ 277 Vac | | | | | |
| Power Factor (PF) | | 0.9 | > 0.9 | | At nominal input voltage From 100% to XX% of output current | | | | |
| Inrush Current | A | | Meets NEMA-410 requir | rements | •At any point on the sine wave and 25°C •Active limiting inrush current is available as an option. Please contact your ERP representative or send an email to SaveEnergy@erp-power.com. | | | | |
| Leakage Current | mA | | | 0.4 mA @ 120 Vac 0.92 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 From 100% to XX% of output current Complies with DLC (Design Light Consortium) technical requirements. | | | | |
| Efficiency | % | - | up to 90% | - | Measured with nominal input voltage, a full sinusoidal wave form and without dimmer attached. | | | | |
| Standby Power | W | | | 1.4 1.7 | •At 120 Vac •At 277 Vac | | | | |
| Isolation | The A | 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 (lout) | mA | | | | See ordering information for details Output voltage and current combination cannot exceed max power output. See page 2 for operating window. The rated output current for each model is achieved at Vin≥108 Vac & Vin≥249 Vac. | |
| Output Current Regulation | % | -5 | ±2.5 | 5 | At nominal AC line voltage Includes load and current set point variations. Options with a tighter tolerance are available. Contact your ERP representative for details. | |
| 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 each | output c model | current for | Measured at nominal LED voltage and nominal input voltage without dimming. Calculated in accordance with the IES Lighting Handbook, 9th edition. | |
| Dimming Range (% of lout) | % | 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 | Without any dimmer attached, and at nominal input voltages and nominal load Measured from application of AC line voltage to 100% light output. Complies with ENERGY STAR® luminaire specification and CA Title 24. | |
| Isolation | solation The main DC output is certified and tested per UL8750 Class 2 or LED Class 2, and is supplement SF compliant. | | | | | |



PKM30 30 W PKM50 50 W

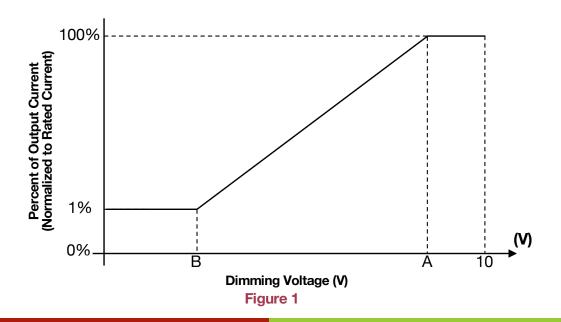
50 & 30 W Programmable Constant Current Class 2 LED Driver with 0-10 V Dimming

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

In the PKM 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.

By default, the non-linear profile with 1% minimum dimming (shown in figure 1) is pre-loaded in the PKM series.

| | Units | Minimum | Typical | Maximum | Notes | | | | |
|---|--|--|---------|---------|--|--|--|--|--|
| +Dim Signal, -Dim Signal | done | The PKM series operate 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 (see figure 1) | 100% of output current between 10 V and 8.5 V, Linear between 8.5 V and 1.5 V, 1% of output current below 1.5 V. | | | | | | | | |
| Dimming Range | % | 0.1 | | 100 | As a percent of the output current | | | | |
| High Level Voltage - A | V | 8.4 | 8.5 | 8.6 | | | | | |
| Low Level Voltage - B | V | | 1.5 | | | | | | |
| 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 \leq +/-8% until down to 1.5V. | | | | |
| Minimum Dimming Tolerance | % | 0.8 | 1 | 2 | | | | | |
| Isolation | The 0-10 V circuit is isolated from both the AC input and the main DC output and meets UI 8750 SF supplem | | | | | | | | |





PKM30 30 W PKM50 50 W

50 & 30 W Programmable Constant Current Class 2 LED Driver with 0-10 V Dimming

5 - ENVIRONMENTAL CONDITIONS

| | Units | Minimum | Typical | Maximum | Notes | | | |
|------------------------------------|--|---------------|---------------|---------|--|--|--|--|
| Operating Ambient Temperature (Ta) | °C | -20 | | 50 | 50°C is the non-derated temperature (Refer to section 8 "Output power de-rating at higher temperatures". | | | |
| Maximum Case Temperature (Tc) | °C | | | +90 | Case temperature measured at the hot spot •tc (see label in page 17) | | | |
| Storage Temperature | °C | -40 | | +85 | | | | |
| Humidity | % | 5 | - | 95 | Non-condensing | | | |
| Cooling | | Conve | ection cooled | | | | | |
| Acoustic Noise | dBA | | | 24 | Measured at a distance of 1 meter, without dimmer | | | |
| Mechanical Shock Protection | per EN6 | 60068-2-27 | | | | | | |
| Vibration Protection | per EN6 | 60068-2-6 & E | N60068-2-64 | | | | | |
| 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 17) | | | | | | | |

6 - EMC COMPLIANCE AND SAFETY APPROVALS

| EMC Compliance | | | | | | | |
|-------------------------------|--|--|---|--|--|--|--|
| Conducted and Radiated EMI | •Compliant with FCC CFR T | tle 47 Part 15 Class A | | | | | |
| Harmonic Current I | Emissions | IEC61000-3-2 | For Class C equipment | | | | |
| Voltage Fluctuation | s & Flicker | IEC61000-3-3 | | | | | |
| | 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 | | | | |
| Immunity | Electrical Fast Transient | IEC61000-4-4 | ± 2 kV on AC power port for 1 minute, ±1 kV on signal/control lines | | | | |
| Compliance | S | IEC61000-4-5 ± 2 kV line to line (differential mode) /± 2 kV line to common mode groun | | | | | |
| | Surge | 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 Agency Approvals | | | | | | | |
| UL | UL8750 listed Class 2, supplement SF compliant | | | | | | |
| cUL | CAN/CSA C22.2 No. 250.13 | -14 LED equipmer | nt 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 1556 Vac. Insulation between the input (AC line and Neutral) and the output |



PKM30 30 W PKM50 50 W

50 & 30 W Programmable Constant Current Class 2 LED Driver with 0-10 V Dimming

7 - PROTECTION FEATURES

Input Over Current Protection

The PKM 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 PKM 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 PKM 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 PKM series is typically limited to 1.3 times the maximum output voltage of each model.

■ 8 - OUTPUT POWER DE-RATING AT ELEVATED TEMPERATURES

The PKM 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.



PKM30 30 W PKM50 50 W

50 & 30 W Programmable Constant Current Class 2 LED Driver with 0-10 V Dimming

9 - 0-10 V DIMMING

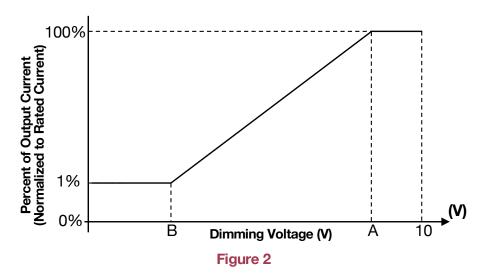
The PKM series operate only with 0-10 V dimmers that sink current. They are not designed to operate with 0-10 V control systems that source current, as used in theatrical/entertainment systems. Developed in the 1980's, the 0-10 V sinking current control method is adopted by the International Electrotechnical 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.

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

In the PKM series, several 0-10 V dimming profiles can be selected, such as a logarithmic profile, a non-linear profile with 0% minimum dimming, and a non-linear profile with 10% minimum dimming.

By default, the non-linear profile with 1% minimum dimming (shown in figure 5) is pre-loaded in the PKM50/30 series. In this non-linear 0-10 V dimming profile, 10 V to 8.5 V=100% of the output current, <1.5 V=1%,



10 - COMPATIBLE 0-10 V DIMMERS

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



PKM30 30 W PKM50 50 W

50 & 30 W Programmable Constant Current Class 2 LED Driver with 0-10 V Dimming

■ 11 - PROGRAMMING

The PKM 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 PKM 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 GUI (Graphical User Interface), 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 | https://www.barcodefactory.com/tsc/printers/tc210/99-059a001-54lf |
| Ribbon | TSC Prem. Resin, 60mm x 110mm | https://www.barcodefactory.com/tsc/35-r060110-23cf |
| Labels | BAR81x.28-1-TT | https://www.barcodefactory.com/barcodefactory/labels/bar81x_28-1-tt |

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



Figure 3



PKM30 30 W PKM50 50 W

50 & 30 W Programmable Constant Current Class 2 LED Driver with 0-10 V Dimming

12 – EXTERNAL NTC FUNCTIONALITY

The PKM series can be used with an external NTC thermistor to reduce output current at elevated ambient temperatures. The following values can be set with the ERP GUI, which enables the user to adjust output current and dimming profile:

External NTC Functionality: Allows user to disable functionality, enable functionality, or enable functionality with a flashing effect when in the derated region

Recovery Threshold: Value at which driver returns to 100% output

Top Trigger Threshold: Value at which driver begins derating output current

Bottom Trigger Threshold: Value at which driver reaches minimum percentage of output current

Minimum NTC Throttle: Percentage of output current at and below Bottom Trigger Threshold

By default, the PKM series has external NTC functionality disabled, and utilizes the internal overtemperature protection outlined in section 7. Figure 4 below shows the default values of the PKM series' external NTC functionality. Resistor values can be customized from $200 - 20{,}000\,\Omega$.

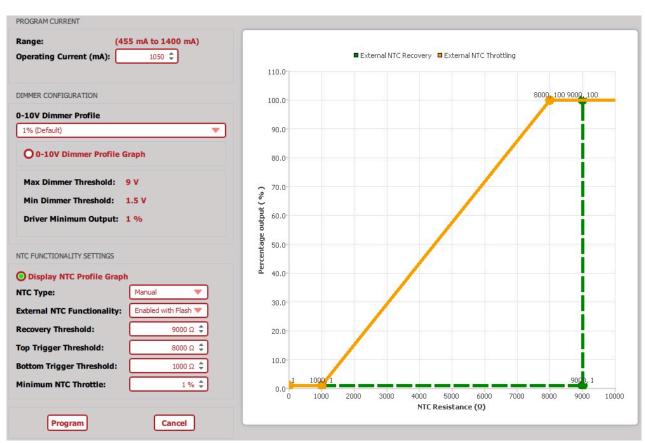


Figure 4



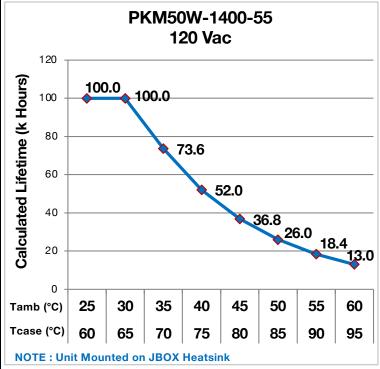
PKM30 30 W PKM50 50 W

50 & 30 W Programmable Constant Current Class 2 LED Driver with 0-10 V Dimming

13 - 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 7 and 8 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
- 3) Equivalent Series Resistance (ESR): 150% or less of initial specified value
- 2) Dissipation Factor (tan δ): 150% or less of initial specified value
- 4) Leakage current: less of initial specified value



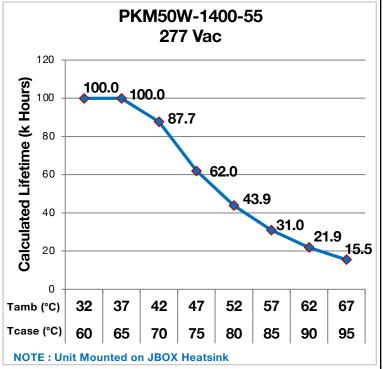


Figure 5 Figure 6

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.



PKM30 30 W PKM50 50 W

50 & 30 W Programmable Constant Current Class 2 LED Driver with 0-10 V Dimming

■ 15 – EFFICIENCY VERSUS OUTPUT VOLTAGE (100% OF IOUT)

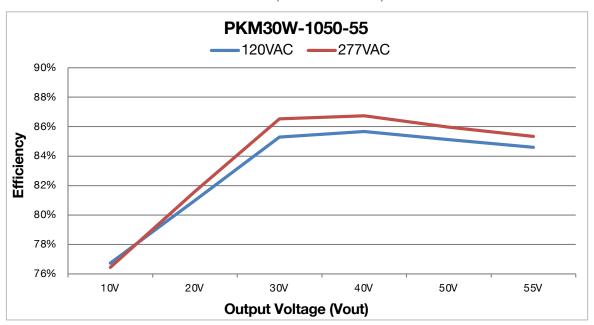


Figure 6

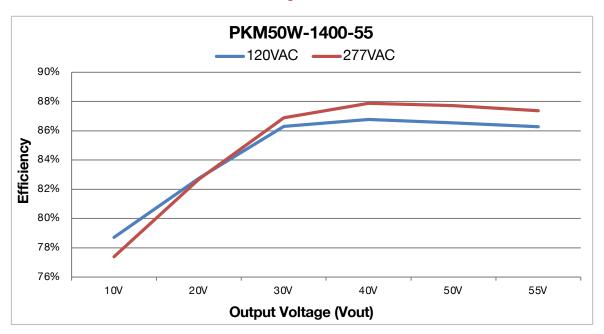


Figure 7



PKM30 30 W PKM50 50 W

50 & 30 W Programmable Constant Current Class 2 LED Driver with 0-10 V Dimming

■ 16 – POWER FACTOR VERSUS OUTPUT VOLTAGE (100% OF IOUT)

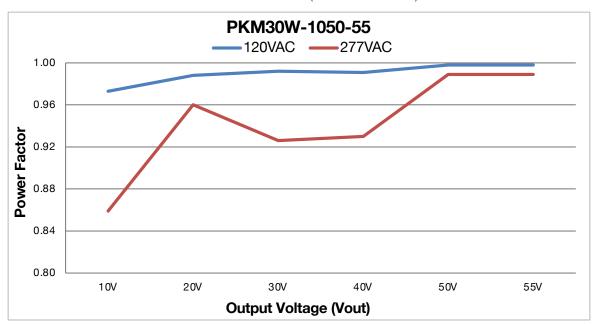


Figure 8

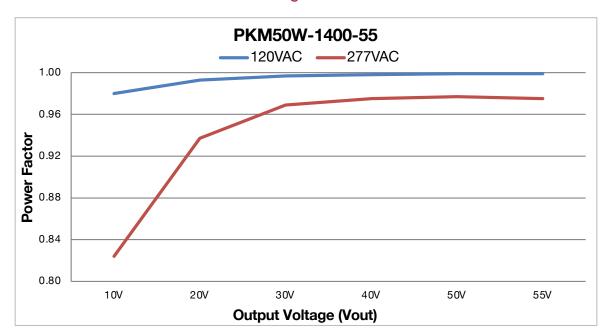


Figure 9



PKM30 30 W PKM50 50 W

50 & 30 W Programmable Constant Current Class 2 LED Driver with 0-10 V Dimming

17 – THD VERSUS OUTPUT VOLTAGE (100% OF IOUT)

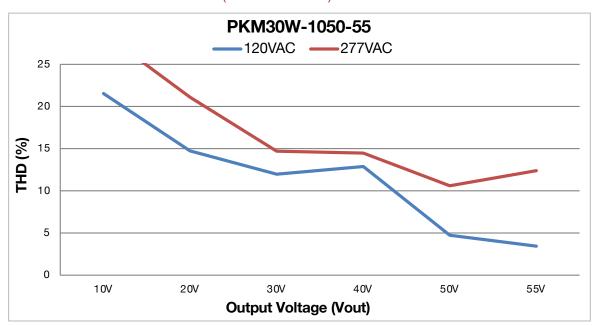


Figure 10

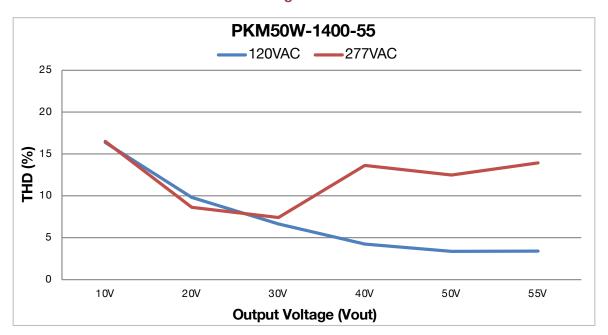


Figure 11



PKM30 30 W PKM50 50 W

50 & 30 W Programmable Constant Current Class 2 LED Driver with 0-10 V Dimming

14 - MECHANICAL DETAILS

• Packaging: Aluminum case

I/O Connections:

· Models with "TD" suffix: Terminal Blocks

• Models with "SD" suffix: 18 AWG on all leads, 162 mm (6.38 in) long, 105°C rated, stranded, stripped by

approximately 9.5mm, and tinned. All the wires, on both input and output, have a 300 V

insulation rating.

• Models with "NS" suffix: 18 AWG on all leads, 300 mm (11.81 in) long, 105°C rated, stranded, stripped by

approximately 9.5mm, and tinned. All the wires, on both input and output, have a 300 V

insulation rating.

• Ingress Protection: IP20 rated

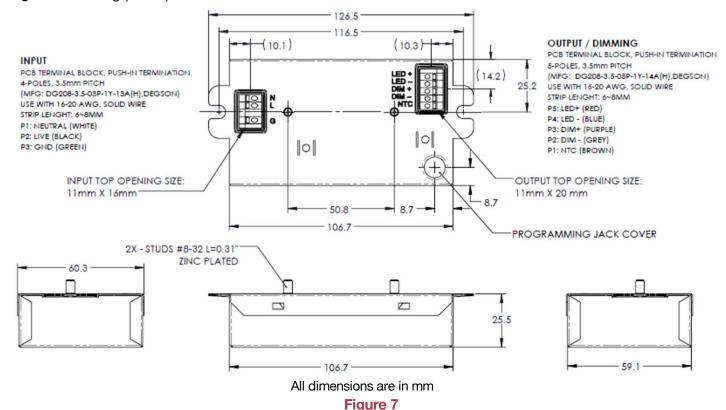
• Mounting Instructions: The PKM driver case must be secured on a flat surface through the two mounting

tabs, shown here below in the case outline drawings.

15 - OUTLINE DRAWINGS (MODELS WITH "-TD" SUFFIX)

Dimensions: L 106.7 x W 60.3 x H 25.5 mm (L 4.20 x W 2.37 x H 1.00 in.)

Volume: 164 cm³ (9.95 in³) **Weight:** 280 g (9.9 oz)





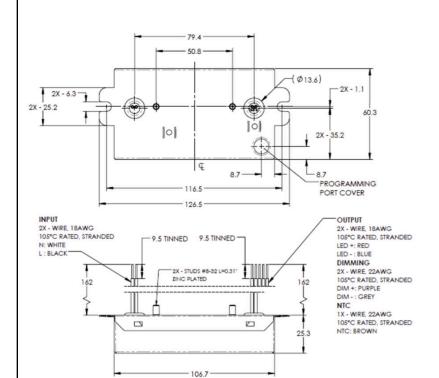
PKM30 30 W PKM50 50 W

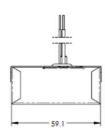
50 & 30 W Programmable Constant Current Class 2 LED Driver with 0-10 V Dimming

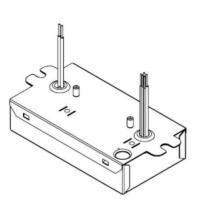
16 - OUTLINE DRAWINGS (MODELS WITH "-SD" SUFFIX)

Dimensions: L 106.7 x W 60.3 x H 25.3 mm (L 4.20 x W 2.37 x H 0.99 in.)

Volume: 163 cm³ (9.85 in³) **Weight:** 290 g (10.2 oz)







All dimensions are in mm Figure 8



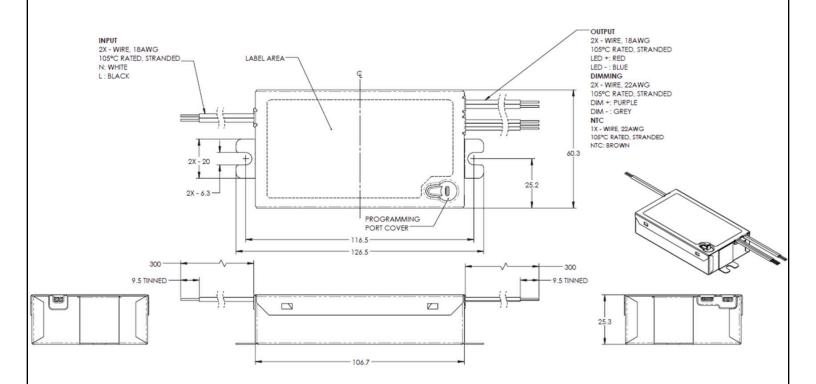
PKM30 30 W PKM50 50 W

50 & 30 W Programmable Constant Current Class 2 LED Driver with 0-10 V Dimming

17 - OUTLINE DRAWINGS (MODELS WITH "-NS" SUFFIX)

Dimensions: L 106.7 x W 60.3 x H 25.3 mm (L 4.20 x W 2.37 x H 0.99 in.)

Volume: 163 cm³ (9.85 in³) **Weight:** 300 g (10.6 oz)



All dimensions are in mm Figure 9



PKM30 PKM50

50 & 30 W Programmable Constant Current Class 2 LED Driver with 0-10 V Dimming

18 - LABELING

The PKM50W-1400-55-SD is used in figure 10 as an example to illustrate a typical label.

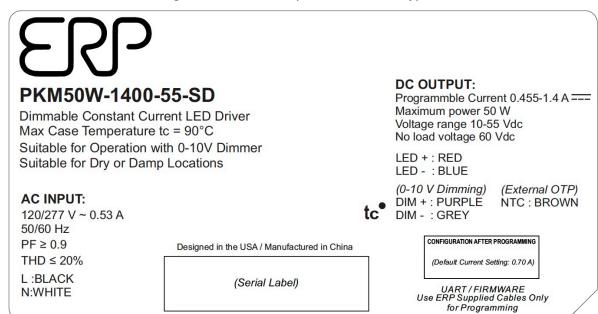


Figure 10

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PKM30 30 W PKM50 50 W

50 & 30 W Programmable Constant Current Class 2 LED Driver with 0-10 V Dimming

Revision History

| Date | Comments |
|-----------|-------------------|
| 07APR2021 | Initial datasheet |
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