

	JAYKAL
PROJECT NAME:	JAYKAL LED SOLUTIONS, INC.
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PROJECT NOTES:	21499 Baltimore Ave.
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OVERVIEW

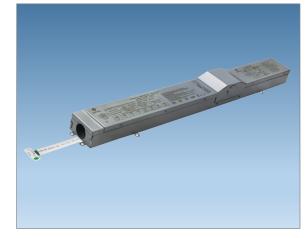
This multi-current output LED driver gives the installer the ability to field select the desired wattage for the fixture. Multiple output wattages are available using simple DIP switch settings.

The driver features integrated bi-level dimming with selections of 40%, 50%,60% or defeated. 0-10V dimming maintains compatibility with wall dimmers and controls. The integrated emergency backup features a field serviceable battery.

FEATURES

- ♦ Bi-Level Dimming Settings: 60%, 50%, 40%, Disabled
- Output Wattage and Bi-Level Dimming Selectable by DIP Switch
- ♦ 0-10V Dimming
- ♦ Integrated Emergency Backup with Field Serviceable Battery
- Four Standard Models are Available

OPERATION



Beginning with the power off, remove the center cover to reveal the 4-position DIP Switch. Using the guide printed on the cover of the driver, select the desired output wattage by configuring the **Wattage** DIP switches to the desired setting. Once the output current settings are set the driver will maintain this constant current output. Configure the **50/50** dimming DIP switches to the desired bi-level dimming setting.

To activate the bi-level dimming function simply turn on the light switch. The fixture will illuminate to the **50/50** defined level. To raise the level to 100% (Full ON), within 10 seconds of turning on the light switch, return the switch to the OFF position and immediately back to on. The next time the light switch is turned on, the fixture will return to the bi-level preset.









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	GENERAL SPECIFICATIONS
Frequency	50/60Hz
Inrush Current	<25A
Harmonics (Nominal)	Fully complies with EN61000-3-2
Total Harmonic Distortion	<20% at 120V, <20% at 208V, <20% at 277V.
Input Current Protection	Fuse (Internal)
Full Range Dimming	100% - 10% of full power (standard configuration), minimum 40W Analog dimming current draw 1.5mA per fixture. Maximum number of fixtures = sensor current / 1.5mA
Dimming Options	0-10V analog dimming by relay, ambient sensor, daylight sensor or any other compatible sensor
Operating Temperature	-30°C to +50°C / -22°F to 122°F -30°C to +50°C / -22°F to 122°F
Operating Humidity	0 to 90% RH Non-Condensing 0 to 90% RH Non-Condensing
Maximum Case Temperature (Tc)	85°C / 185°F
Remote Installation Losses	Dependent upon wire length, significantly lower than class II low voltage related losses.
EMC	FCC Title 47 Part 18 C (non-consumer): EN55015:2006, EN61547, N61000-3-2, EN61000-3-3
UL	E471865
Surge Protection	IEEE C62.41 Category C Low Between phase and neutral 6KV / 3KA Between line and ground 10KV / 1KA
Self-protection Mechanisms	In the event of a short circuit, or open circuit; If the LED fails to light; In the end of the LED's life; Input current protection by internal fuse; Advanced surge protection between phase and neutral and between line and ground; Advanced output protection against arching or shorting to ground.



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SPECIFICATIONS TABLE								
Model JLS6810D-EMVW-1224-10-S-X-4(12W,16W,20W,24W) (EM1)								
WATTAGE SETTINGS	24W 20W 16W 12							
INPUT VOLTAGE		100-27	7VAC					
INPUT CURRENT	0.096@277V	0.08A@277V	0.063@277V	0.062A@277V				
POWER FACTOR	>0.9	>0.9 >0.9 >0.9 >0.7						
WATTAGE@60% DIMMING	14.4W 12W 9.6W 7.2W							
WATTAGE@50% DIMMING	12W 10W 8W 6W							
WATTAGE@40% DIMMING	9.6W 8W		6.4W	4.8W				
CURRENT@60% DIMMING	0.057A@277V	0.037A@277V						
CURRENT@50% DIMMING	0.047A@277V							
CURRENT@40% DIMMING	0.038A@277V							
CURRENT DIMMING DISABLED	0.096A@277V							
EMERGENCY MODE WATTAGE	12W							
EMERGENCY MODE VOLTAGE	30-40VDC							
EMERGENCY MODE CURRENT	300mA							
DIMENSIONS								

SPECIFICATIONS TABLE							
Model JLS6810D-EMVW-1836-10-S-X-4 (18W,24W,30W,36W) (EM2)							
WATTAGE SETTINGS	36W	30W	24W	18W			
INPUT VOLTAGE		100-27	7VAC				
INPUT CURRENT	0.163A@277V	0.120A@277V	0.096@277V	0.093A@277V			
POWER FACTOR	>0.8	>0.8 >0.9 >0.9 >0.7					
WATTAGE@60% DIMMING	21.6W 18W 14.4W 10.8W						
WATTAGE@50% DIMMING	18W 15W 12W 9W						
WATTAGE@40% DIMMING	14.4W	14.4W 12W 9.4W		7.2W			
CURRENT@60% DIMMING	0.095A@277V	0.071A@277V	0.057A@277V	0.056A@277V			
CURRENT@50% DIMMING	0.081A@277V	0.081A@277V					
CURRENT@40% DIMMING	0.065A@277V						
CURRENT DIMMING DISABLED	0.163A@277V						
EMERGENCY MODE WATTAGE	12W						
EMERGENCY MODE VOLTAGE	30-40VDC						
EMERGENCY MODE CURRENT	300mA max						
DIMENSIONS	IENSIONS ENGINEERING TO THE PROPERTY OF THE PR						



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SPECIFICATIONS TABLE							
Model JLS6810D-EMVW-2440-10-S-X-4(24W,30W,36W,40W) (EM3)							
WATTAGE SETTINGS	40W	24W					
INPUT VOLTAGE		100-27	7VAC				
INPUT CURRENT	0.158A@277V	0.163A@277V	0.120A@277V	0.096@277V			
POWER FACTOR	>0.9	>0.9 >0.8 >0.9 >0.9					
WATTAGE@60% DIMMING	24W 21.6W 18W 14.4W						
WATTAGE@50% DIMMING	20W 18W 15W 12V						
WATTAGE@40% DIMMING	16W	14.4W	12W	9.4W			
CURRENT@60% DIMMING	0.095A@277V 0.095A@277V		0.071A@277V	0.057A@277V			
CURRENT@50% DIMMING	0.079A@277V						
CURRENT@40% DIMMING	0.063A@277V						
CURRENT DIMMING DISABLED	0.158A@277V						
EMERGENCY MODE WATTAGE	12W						
EMERGENCY MODE VOLTAGE	30-40VDC						
EMERGENCY MODE CURRENT	300mA max						
DIMENSIONS							

SPECIFICATIONS TABLE								
Model JLS6810D-EMVW-4060-10-S-X-4 (40W,45W,50W,60W) (EM4)								
WATTAGE SETTINGS	60W	40W						
INPUT VOLTAGE		100-27	7VAC					
INPUT CURRENT	0.241A@277V	0.201A@277V	0.199A@277V	0.158A@277V				
POWER FACTOR	>0.9	>0.9 >0.9 >0.8 >0.9						
WATTAGE@60% DIMMING	36W 30W 27W 24W							
WATTAGE@50% DIMMING	30W 25W 22.5W 20W							
WATTAGE@40% DIMMING	24W	20W	18W	16W				
CURRENT@60% DIMMING	0.142A@277V	0.119A@277V	0.119A@277V	0.095A@277V				
CURRENT@50% DIMMING	0.119A@277V	0.119A@277V						
CURRENT@40% DIMMING	0.950A@277V							
CURRENT DIMMING DISABLED	0.241A@277V							
EMERGENCY MODE WATTAGE	12W							
EMERGENCY MODE VOLTAGE	30-40VDC							
EMERGENCY MODE CURRENT	300mA max							
DIMENSIONS								



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WIRING LOCATIONS AND DIP SWITCH SETTINGS

JAYKAL	DIMMABLE EMERGENCY LED DRIVER MODEL:JLS6810D-EMVW-1836-10-S-X-4 O-10v/PWM Dimming(only for normal mode) Ambient temp:5-40°C tc:70°C Do not short the dimming control wires to the loading wires Ne court less fils de commande de gradation aux fils de chargement					✓ Red -S-X-4 Do not short the dimming control wires to the loading wires 7 Test			
INPUT	Norma	I mode	Input Output	100-277 28-40Va			PF>0.90)	Suitable for Damp locations/Convient aux emplacements mouilles Caution/Attention: Silver Selective Description
LINE IN NEUTRAL IN	Emergen	cy mode	Emergene 90 Minute		Output \		Output (Current A Max	Disconnect power before installation/Couperl alimentationavant installation Case must be grounded/Cas doi etter mis a la terre Do not open the battery box, prohibit the replacement of thebattery.
16-20AWG	PIN1,2 Output power selection,PIN3,4 Switch to adjust brightness selection						No maintenance parts inside N'ouvrez pas la batterie, interdisez le remplacement de la batterie 0-10V DIMMING DIM-		
(cpound	ON 1 2	ON == 2	ON ==2	ON $\frac{1}{4}$	ON 📲 3	ON 📲	ON 📲	ON ⊞³	Aucune piece de maintenance a interieur DC OUTPUT LED-
GROUND	36W	30W	24W	18W	Disable Bi level dimming	60% Bi leve dimming	50% Bi level dimming	40% Bi level dimming	RoHS Kearray FC RoHS

TEST BUTTON BEHAVIOR AND FUNCTIONS

The test button acts as a multi-function indicator. When the test button is pushed the driver will toggle between normal and backup modes. The button also provides status indication for the presence of main power, charging, emergency and malfunction status with easily read indicator lights.