

	JAYKAL
PROJECT NAME:	JAYKAL LED SOLUTIONS, INC.
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PROJECT NOTES:	26832 Lewes Georgetown Hwy, Building 2, Unit E
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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.

This multi-CCT LED driver gives the installer the ability to field select the desired CCT for the fixture. Multiple CCT 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.

FEATURES

- ♦ Bi-Level Dimming Settings: 60%, 50%, 40%, Disabled
- ♦ CCT Settings:3000K,3500K,4000K,5000K
- Output Wattage and Bi-Level Dimming Selectable by DIP Switch
- ♦ 0-10V Dimming
- ♦ Fully Isolated Plastic Case



OPERATION

Beginning with the power off, select the desired output wattage by configuring the **Setting 1** DIP switches to the desired setting. Once the output current settings are set the driver will maintain this constant current output. Configure **Setting 2** DIP switches to the desired bi-level dimming setting. Configure **Setting 3** DIP switches to the desired CCT setting.

To activate the bi-level dimming function simply turn on the light switch. The fixture will illuminate to the **Setting 2** 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 Conditions)	Fully complies with EN61000-3-2			
Total harmonic distortion	<15% at 120V, <15% at 208V, <15% at 277V.			
Input current protection	Fuse (Internal)			
Continuous 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. Bi-level dimming by relay or dry contact closure Digital dimming with individual light point control and real-time feedback			
Operating Temperature Range	-40°C to +50°C / -40°F to 122°F			
Multiple CCT Option	3000K/3500K/4000K/5000K			
Operating Humidity	0 to 90% RH non-condensing			
Maximum Case Temperature (Tc)	85°C / 185°F			
Lifetime at Tc = 75°C / 167F	50,000 hours			
Remote Installation Losses	Dependent upon wire length, significantly lower than class II losses Dependent upon wire length, significantly lower than class II losses			
FCC Compliance	FCC Part15 Subpart A Class A			
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-VW-1022-10-S-4(10W,14W,18W,22W)(M1)					
Wattage Settings	22W 18W 14W 10W					
Input Voltage		100-27	7VAC			
Input Current	0.074@277V					
Power Factor @120V 60Hz	0.992	0.992	0.994	0.995		
Power Factor @277V 60Hz	0.984 0.98 0.975 0.96					
THD @ 120V 60Hz (%)	14.4	13.9	12.3	8.5		
THD @ 277V 60Hz (%)	11.7	9.9	10.3	11.4		
Wattage@60% Dimming	13.2W	10.8W	8.4W	6W		
Wattage@50% Dimming	11W 9W 7W 5W					
Wattage@40% Dimming	8.8W 7.2W 5.6W 4W					
Current@60% Dimming	0.0444A@277V	0.036A@277V	0.0282A@277V	0.0174A@277V		
Current@50% Dimming	0.037A@277V	0.03A@277V	0.0235A@277V	0.0145A@277V		
Current@40% Dimming	0.0296A@277V	0.024A@277V	0.0188A@277V	0.0116A@277V		
Current Dimming Disabled	0.074@277V	0.045A@277V	0.047A@277V	0.029A@277V		
FCC Compliance	FCC Part15 Subpart A Class A					

SPECIFICATIONS TABLE						
MODEL JLS6810D-VW-1533-10-S-4 (15W,22W,27W,33W) (M2)						
Wattage Settings	33W 27W 22W 15W					
Input Voltage		100-27	7VAC			
Input Current	0.104A@277V	0.09A@277V	0.073@277V	0.05A@277V		
Power Factor @ 120V 60Hz	0.988	0.99	0.933	0.994		
Power Factor @ 277V 60Hz	0.979 0.975 0.967 0.975					
THD @ 120V 60Hz (%)	13.9	12.3	8.5	12.3		
THD @ 277V 60Hz (%)	9.9	10.3	11.4	10.3		
Wattage@60% Dimming	19.8W	16.2W	13.2W	9W		
Wattage@50% Dimming	16.5W 13.5W 11W 7.5W					
Wattage@40% Dimming	13.2W 10.8W 8.8W 6W					
Current@60% Dimming	0.062A@277V	0.054A@277V	0.0438A@277V	0.03A@277V		
Current@50% Dimming	0.052A@277V	0.045A@277V	0.0365A@277V	0.025A@277V		
Current@40% Dimming	0.0416A@277V	0.036A@277V	0.029A@277V	0.02A@277V		
Current Dimming Disabled	0.104A@277V	0.09A@277V	0.073@277V	0.05A@277V		
FCC Compliance	FCC Part15 Subpart A Class A					



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SPECIFICATIONS TABLE						
MODEL JLS6810D-VW-2440-10-S-4 (24W,30W,36W,40W) (M3)						
Wattage Settings	40W 36W 30W 24W					
Input Voltage		100-27	7VAC			
Input Current	0.14A@277V					
Power Factor @ 120V 60Hz	0.998	0.988	0.99	0.993		
Power Factor @ 277V 60Hz	0.981	0.979	0.975	0.967		
THD @ 120V 60Hz (%)	14.4	13.9	12.3	8.5		
THD @ 277V 60Hz (%)	11.7	9.9	10.3	11.4		
Wattage@60% Dimming	24W	21.6W	18W	14.4W		
Wattage@50% Dimming	20W 18W 15W 12W					
Wattage@40% Dimming	16W	14.4W	12W	9.6W		
Current@60% Dimming	0.084A@277V	0.072A@277V	0.06A@277V	0.048A@277V		
Current@50% Dimming	0.07A@277V	0.06A@277V	0.05A@277V	0.04A@277V		
Current@40% Dimming	0.056A@277V	0.048A@277V	0.04A@277V	0.032A@277V		
Current Dimming Disabled	0.14A@277V	0.12A@277V	0.1A@277V	0.08A@277V		
FCC Compliance	FCC Part15 Subpart A Class A					

SPECIFICATIONS TABLE							
MODEL JLS6810D-VW-3855-10-S-4 (38W,43W,48W,55W) (M4)							
Wattage Settings	55W 48W 43W 38W						
Input Voltage		100-27	7VAC				
Input Current	0.2A@277V						
Power Factor @ 120V 60 Hz	0.987	0.987	0.987	0.988			
Power Factor @ 277V 60 Hz	0.977 0.976 0.973 0.968						
THD @ 120V 60Hz (%)	14.8	15	14.7	14			
THD @ 277V 60Hz (%)	13.3	11.1	9.4	9.5			
Wattage@60% Dimming	33W	28.8W	25.8W	22.8W			
Wattage@50% Dimming	27.5W	24W	21.5W	19W			
Wattage@40% Dimming	22W	19.2W	18W	15.2W			
Current@60% Dimming	0.12A@277V	0.102A@277V	0.09A@277V	0.078A@277V			
Current@50% Dimming	0.1A@277V	0.085A@277V	0.075A@277V	0.065A@277V			
Current@40% Dimming	0.08A@277V	0.068A@277V	0.06A@277V	0.052A@277V			
Current Dimming Disabled	0.2A@277V	0.17A@277V	0.15A@277V	0.13A@277V			
FCC Compliance	FCC Part15 Subpart A Class A						



WIRING DIAGRAM

