



M50 Vari-Watt Drivers (6 Presets)

JAYKAL

PROJECT NAME:

PROJECT NOTES:

JAYKAL LED SOLUTIONS, INC.

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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.

The driver features integrated 0-10V dimming compatible with wall dimmers and controls and 12VDC Aux output for powering sensors.

FEATURES

- ◆ DIP Switch Selectable Output Wattage (6 Presets)
- ◆ 50-50 Dimming & 0-10V Dimming Functions both available
- ◆ 12VDC AUX Output
- ◆ Metal Housing



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.



Revised 6/19/23

Specifications are typical values and may change without notification

efficiency. illuminated.



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GENERAL SPECIFICATIONS	
INPUT VOLTAGE	120-277VAC 50/60Hz +/- 10%
INRUSH CURRENT	<25A
HARMONICS (NOMINAL CONDITIONS)	Fully complies with EN61000-3-2
THD	<20%
INPUT CURRENT PROTECTION	Fuse (Internal)
FLICKER RATE	Meets or Exceeds IEEE Standard 1789-2015
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
POWER FACTOR	>0.9
OPERATING TEMPERATURE RANGE	-20°C to +50°C / -4°F to 122°F
OPERATING HUMIDITY	10 to 90% RH Non-Condensing
SURGE PROTECTION SPECIFICATION	L-N 1KV, LN-G 2KV
SELF-PROTECTION MECHANISM	Overvoltage protection/Short-Circuit protection/Open-Circuit protection
DIM TO OFF	Yes (for specified 0-10V dimmer only)
MAXIMUM CASE TEMPERATURE (Tc)	85°C / 185°F
FCC COMPLIANCE	FCC Part 15 Subpart A Class A

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MODEL JLS-DM50-M1-0715-[MCCT,BLANK]-[12V,BLANK]-[S,FF]-4 (7W,9W,10W,11W,12W,15W) (M1)						
Wattage Settings	7W	9W	10W	11W	12W	15W
Input Voltage	120-277VAC 50/60Hz					
Input Current (Max)	0.08A@120V	0.1A@120V	0.11A@120V	0.12A@120V	0.13A@120V	0.16A@120V
Power Factor	>0.9					
THD @ 120V 60Hz (%)	<20%					
Efficiency @ 120-277V 60Hz (%)	87% at full load					
Output Voltage	DC 25-42V					
Output Current@120V	160mA +/-5%	200mA +/-5%	225mA +/-5%	250mA +/-5%	270mA +/-5%	340mA +/-5%
Wattage@60% Dimming	4.2W	5.4W	6.0W	6.6W	7.2W	9.0W
Wattage@50% Dimming	3.5W	4.5W	5.0W	5.5W	6.0W	7.5W
Wattage@40% Dimming	2.8W	3.6W	4.0W	4.4W	4.8W	6.0W
Current@60% Dimming	96mA +/-5%	120mA +/-5%	135mA +/-5%	150mA +/-5%	162mA +/-5%	204mA +/-5%
Current@50% Dimming	80mA +/-5%	100mA +/-5%	113mA +/-5%	125mA +/-5%	135mA +/-5%	170mA +/-5%
Current@40% Dimming	64mA +/-5%	80mA +/-5%	90mA +/-5%	100mA +/-5%	108mA +/-5%	136mA +/-5%
Protection	Open protection / Short protection / Overvoltage protection					
FCC Compliance	FCC Part 15 Subpart A Class A					

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MODEL JLS-DM50-M2-1830-[MCCT,BLANK]-[12V,BLANK]-[S,FF]-4 (18W,20W,22W,24W,27W,30W) (M2)						
Wattage Settings	18W	20W	22W	24W	27W	30W
Input Voltage	120-277VAC 50/60Hz					
Input Current (Max)	0.2A@120V	0.22A@120V	0.24A@120V	0.26A@120V	0.3A@120V	0.33A@120V
Power Factor	>0.9					
THD @ 120V 60Hz (%)	<20%					
Efficiency @ 120-277V 60Hz (%)	87% at full load					
Output Voltage	DC 25-42V					
Output Current@120V	400mA +/-5%	450mA +/-5%	500mA +/-5%	540mA +/-5%	610mA +/-5%	680mA +/-5%
Wattage@60% Dimming	10.8W	12W	13.2W	14.4W	16.2W	18W
Wattage@50% Dimming	9.0W	10W	11W	12W	13.5W	15W
Wattage@40% Dimming	7.2W	8.0W	8.8W	9.6W	10.8W	12W
Current@60% Dimming	240mA +/-5%	270mA +/-5%	300mA +/-5%	324mA +/-5%	366mA +/-5%	408mA +/-5%
Current@50% Dimming	200mA +/-5%	225mA +/-5%	250mA +/-5%	270mA +/-5%	305mA +/-5%	340mA +/-5%
Current@40% Dimming	160mA +/-5%	180mA +/-5%	200mA +/-5%	216mA +/-5%	244mA +/-5%	272mA +/-5%
Protection	Open protection / Short protection / Overvoltage protection					
FCC Compliance	FCC Part 15 Subpart A Class A					

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MODEL JLS-DM50-M3-3355-[MCCT,BLANK]-[12V,BLANK]-[S,FF]-4 (33W,36W,40W,44W,50W,55W) (M3)						
Wattage Settings	33W	36W	40W	44W	50W	55W
Input Voltage	120-277VAC 50/60Hz					
Input Current (Max)	0.36A@120V	0.4A@120V	0.44A@120V	0.48A@120V	0.55A@120V	0.61A@120V
Power Factor	>0.9					
THD @ 120V 60Hz (%)	<20%					
Efficiency @ 120-277V 60Hz (%)	87% at full load					
Output Voltage	DC 25-42V					
Output Current@120V	750mA +/-5%	810mA +/-5%	900mA +/-5%	1000mA +/-5%	1130mA +/-5%	1250mA +/-5%
Wattage@60% Dimming	19.8W	21.6W	24W	26.4W	30W	33W
Wattage@50% Dimming	16.5W	18W	20W	22W	25W	27.5W
Wattage@40% Dimming	13.2W	14.4W	16W	17.6W	20W	22W
Current@60% Dimming	450mA +/-5%	486mA +/-5%	540mA +/-5%	600mA +/-5%	678mA +/-5%	750mA +/-5%
Current@50% Dimming	375mA +/-5%	405mA +/-5%	450mA +/-5%	500mA +/-5%	565mA +/-5%	625mA +/-5%
Current@40% Dimming	300mA +/-5%	324mA +/-5%	360mA +/-5%	400mA +/-5%	452mA +/-5%	500mA +/-5%
Protection	Open protection / Short protection / Overvoltage protection					
FCC Compliance	FCC Part 15 Subpart A Class A					

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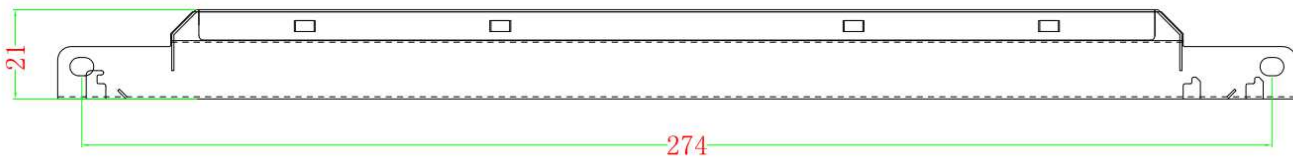
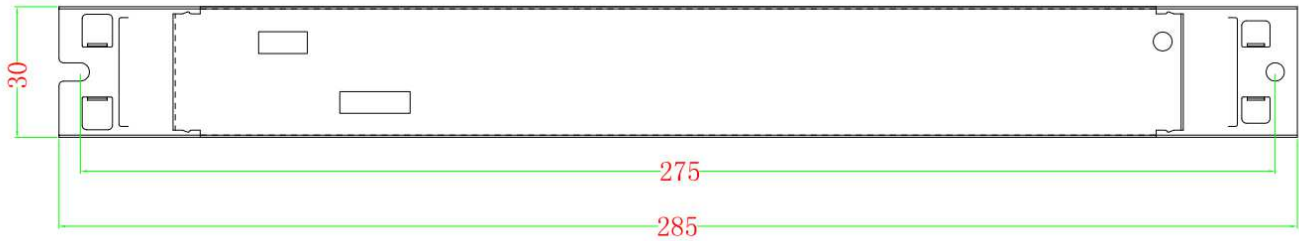
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DIMENSIONS

Unit : mm



Product	Length End to End (in.)	Length Mounting Center (in.)	Height (in.)	Width (in.)
JLS-DM50-M1-0715-MCCT-12V-S-4	11.22	10.83	0.83	1.18
JLS-DM50-M2-1830-MCCT-12V-S-4				
JLS-DM50-M3-3355-MCCT-12V-S-4				

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