



### ■Features

- Output constant Voltage, class 2 multi-channels
- UL, cUL listed, Class 2, Type HL
- Range: 100-277VAC
- Built-in active PFC function
- Efficiency up to 91%
- Protections: short circuit/over load/ over temperature
- Cooling by free air convection
- Full protection metal housing, for dry ,damp and wet locations
- Dimming function:
  - Phase dimming: work with forward phase /leading edge ,MLV and Reverse phase /trailing edge ,ELV,TRIAC dimmers
  - 0-10V dimming: 0-10V/1-10V/Potentiometer/10V PWM 4 in 1
  - Dimming range: 0-100%
  - Suitable for LED lighting and moving sign applications



Class 2  
TYPE HL



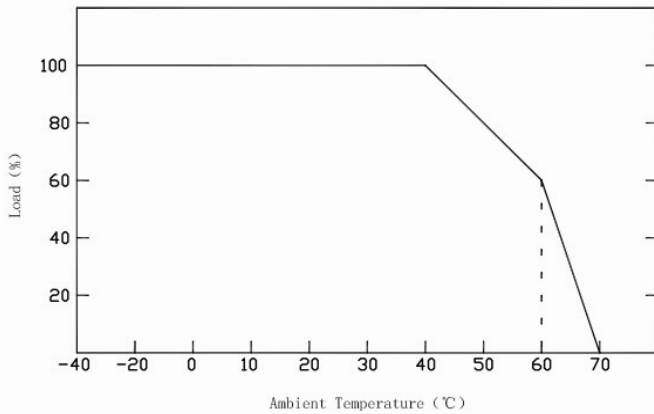
### ■Specification

Model		JLM-288-24-JP2	JLM-300-12-JP2
Certificates		UL cUL FCC	
Output	DC Voltage	24V	12V
	Rated Current	3*4A	5*5A
	Rated Power	288W (3*96W)	300W (5*60W)
	Voltage Tolerance	±0.5V	
	Voltage Regulation	±0.5%	
	Load Regulation	±1%	
Input	Voltage Range	100-277VAC	
	Frequency Range	47-63Hz	
	Power Factor (Typ.) @ full load	0.99@120VAC 0.95@277VAC	0.99@120VAC 0.95@277VAC
	THD (Typ.) @ full load	<20%	
	Efficiency (Typ.) @ full load	87%@120V 91%@277VAC	85%@120V 90%@277VAC
	AC Current (Max.)	3.4A@100VAC	3.6A@100VAC
	Inrush Current (Typ.)	35A ,50%,960us @120VAC ; 43A,50%,1ms @277VAC	
	Leakage current	<0.50mA	
Protection	Short Circuit	shut down o/p voltage, re-power on to recover after fault condition is removed	
	Over Loading	≤120% Hiccup mode ,recovers automatically after fault condition is removed	
	Over temperature	100℃±10℃ shut down o/p voltage, automatically recover after cooling.	
Environment	Working TEMP.	-40~+60℃ (see below derating curve)	
	Working Humidity	20~90%RH, non-condensing	
	Storage TEMP. Humidity	-40~+80℃, 10~95%RH	
	TEMP .coefficient	±0.03%/℃ (0~50℃)	
	Vibration	10~500Hz, 5G 10min./1 cycle,period for 60min. each along X,Y,Z axes	
Safety& EMC	Safety standards	UL8750+UL1310	
	Withstand voltage	I/P-O/P:1.88KVAC	
	Isolation resistance	I/P-O/P:100MΩ/500VDC/25℃/70%RH	
	EMC EMISSION	FCC 47 CFR Part 15 ,Subpart B	
others	Net. Weight	2.2Kg	
	Size	301*108*46mm (L*W*H)	
	packing	330*220*245mm/8pcs /CTN G.W.:21.08KG/CTN	

#### Notes

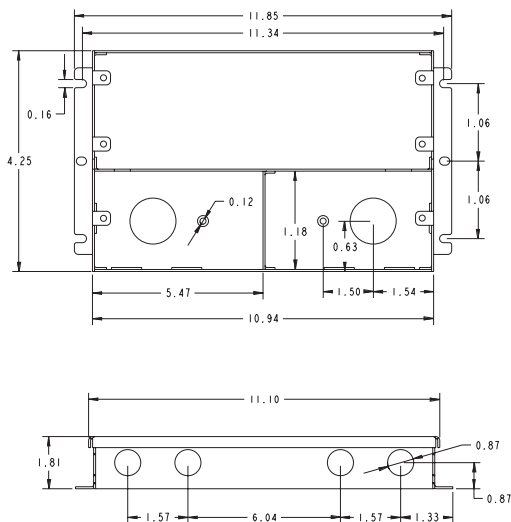
1. All parameters if NOT specially mentioned are measured at 120VAC input , rated load and 25°C of ambient temperature.
2. To extend the driver's using life ,please reduce the loading at lower input voltage.

#### Derating Curve



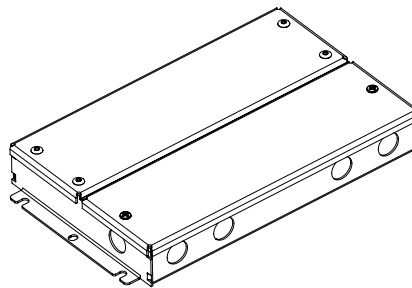
※To extend their life, please refer to the Derating Curve and derate according to the temperature.

#### Mechanical Specification



Unit: mm

Tolerance: P 0.5-2mm



※ Input wire 18AWG Black and White to be connected to AC L and N ,Green wire go ground,

※ Output cable 2\*16AWG,Red" (+) to LED Positive side (+) , "Black"(-) to LED Negative side (-).

Three groups output cables. of KVG-C24288-DWJ and five groups of KVG-C-12300-DWJ

※ Dimming cable 2\*18AWG,DIM (+) Purple to 0/1-10V dimmer signal(+ ) ,DIM (-) Grey to 0/1-10V dimmer signal (-)

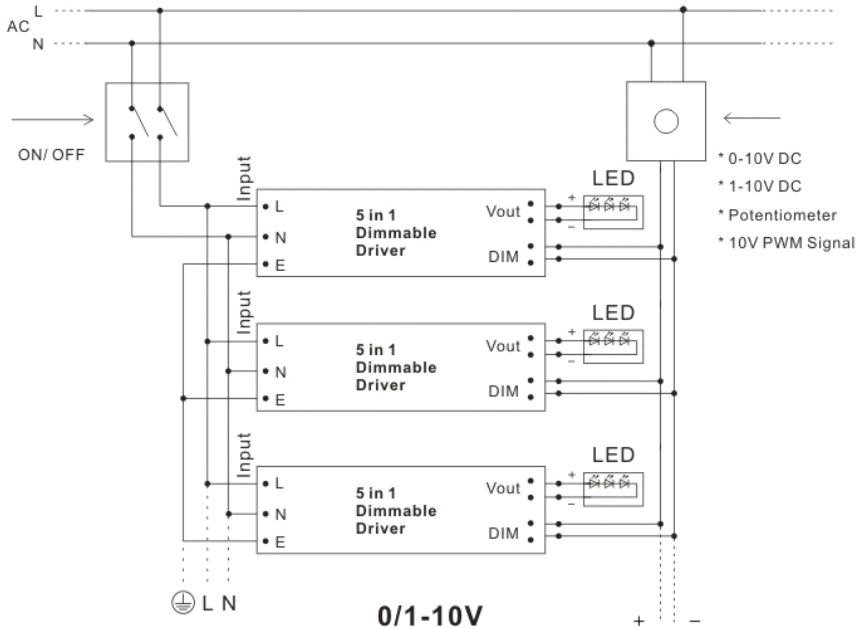
※ Please DO NOT connect "DIM-" to "LED-", "DIM+" to "LED+", or other incorrect connection.

※ Please make sure your connect these correctly otherwise your product will not function correctly and could be damaged.

※ Note: Any other requests we can customized.

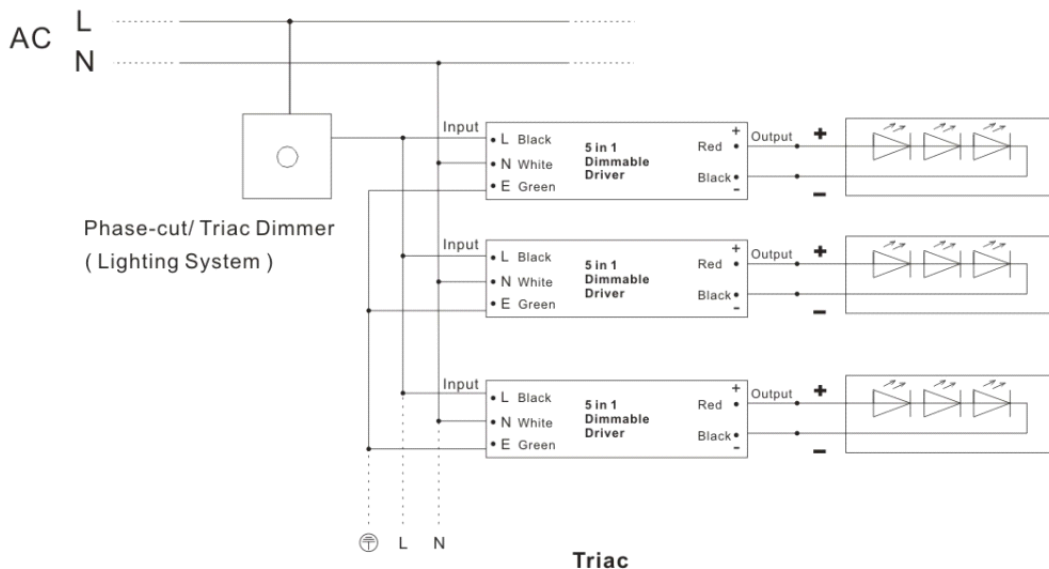
#### ■ Dimming Operation and Connecting Diagram

※Using two ways of dimming at the same time, you must be assured that LED lighting is up to the max. Brightness then you could operate with the other dimming;

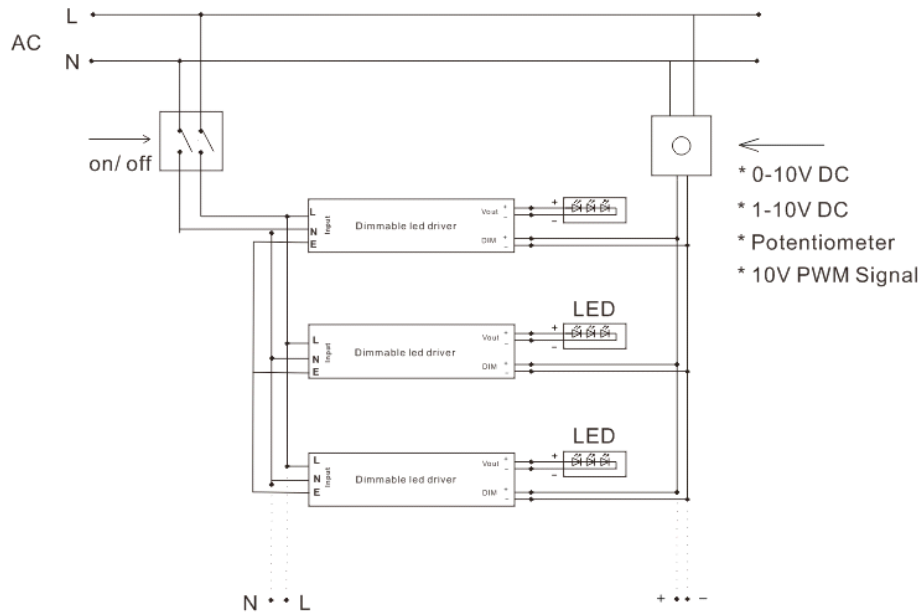


#### ※Using one dimming ---TRIAC/Phase cut dimming

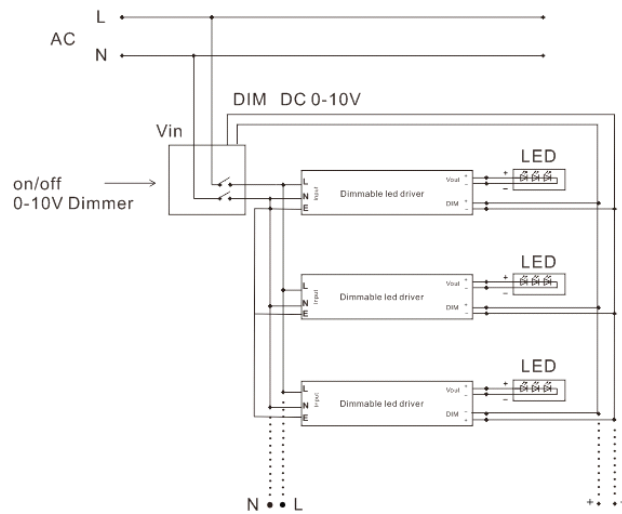
- 1.The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connection a phase /Triac dimmer of lighting system.
- 2.Working with forward phase /leading edge ,MLV and Reverse phase /trailing edge ,ELV,TRIAC dimmers
- 3.Min loading is about 10%
- 4.Please try to use dimmers with power at least 1.5 times as the output power of the driver.



※ 0-10/1-10V dimming



**Diagram 1**



**Diagram 2**

※To extend their life, please refer to the Derating Curve and derate according to the temperature.

**■ Instruction:**

- 1) This driver should be installed by qualified and professional person;
- 2) Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.
- 3) Ensure that wiring is correct before test in order to avoid light and power supply damage;
- 4) If driver Cannot work normally, don't maintain privately; Have any question, please contact Joyolight.

Please visit our website or contact us for more information!



## JLM Triac tested dimmer list

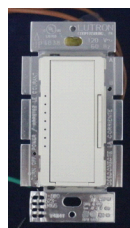
## Compatible Dimmer List(JLM Series)

Dimmer Brand	Model number (Dimmer)	Input Voltage	Dimming Range	Forward Phase or Reserve phase	Compatible Driver (Series)	Remark
LUTRON	SCL-153PR-WH	120V	0-100%	Forward Phase	KVF series	Dimmer with spin button (adjust min. dimming 0-30%)
	DVCL-153PR-WH	120V	0-100%	Forward Phase	KVF series	
	DVWCL-153PH-LA	120V	0-100%	Forward Phase	KVF series	
	CTCL-153PDH-LA	120V	0-100%	Forward Phase	KVF series	
	TGCL-153PR-WH	120V	0-100%	Forward Phase	KVF series	
	TGCL-153PH-WH	120V	0-100%	Forward Phase	KVF series	
	MACL-153MH-LA	120V	20-100%	Forward Phase	KVF series	
	MIR-600M	120V	2-100%	Forward Phase	KVF series	
	CT-600PR-IV	120V	0-100%	Forward Phase	KVF series	
	CT-600PR-WH	120V	0-100%	Forward Phase	KVF series	
	CT-103PR-WH	120V	2-100%	Forward Phase	KVF series	
	DV-600PR-BL	120V	0-100%	Forward Phase	KVF series	
	DV-600PR-WH	120V	0-100%	Forward Phase	KVF series	
	TG-600PR-LA	120V	0-100%	Forward Phase	KVF series	
	TG-600PR-IV	120V	0-100%	Forward Phase	KVF series	
	TG-600PR-WH	120V	0-100%	Forward Phase	KVF series	
	TG-10PR-WH	120V	0-100%	Forward Phase	KVF series	
	S-600PR-WH	120V	0-100%	Forward Phase	KVF series	
	MRF2-6ND-120-AL	120V	0-100%	Forward Phase	KVF series	
	MRF2-6CL-GR	120V	15-100%	Forward Phase	KVF series	
	DZ6HD	120V	23-100%	Forward Phase	KVF series	
	PD-6WCL	120V	20-100%	Forward Phase	KVF series	
	PD-5NE-WH	120V	18-100%	Forward Phase	KVF series	
	SELV-300P	120V	15-100%	Reserve phase	KVF series	
	MSCELV-600M	120V	0-100%	Reserve phase	KVF series	
	MEF2-6ELV-120	120V	0-100%	Reserve phase	KVF series	
	NTLV-600-277-WH	277V	1-100%	Reserve phase	KVF series	
	SF-12P-277	277V	13-100%	Reserve phase	KVF series	
	NTF-10-277	277V	1-100%	Reserve phase	KVF series	

## Compatible Dimmer List(JLM Series)

Dimmer Brand	Model number (Dimmer)	Input Voltage	Dimming Range	Forward Phase or Reserve phase	Compatible Driver (Series)	Remark
LEVITON	VPI06-1LZ	120V	15-100%	Forward Phase	KVF series	
	TTI06-1LZ	120V	1-100%	Forward Phase	KVF series	
	IPL06	120V	15-100%	Forward Phase	KVF series	
	DZ6HD	120V	17-100%	Forward Phase	KVF series	
	6674	120V	16-100%	Forward Phase	KVF series	
	6672	120V	20-100%	Forward Phase	KVF series	
	TBL03	120V	15-100%	Forward Phase	KVF series	
	6602	120V	0-100%	Forward Phase	KVF series	
	6683	120V	10-100%	Forward Phase	KVF series	
LEGRAND	RHCL453PNICCV6	120V	6-100%	Forward Phase	KVF series	
	WSCL450TCCCV4	120V	11-100%	Forward Phase	KVF series	
	LSCL453PLACCV4	120V	11-100%	Forward Phase	KVF series	
CRESTRON	CLW-DELVEX-P-W-S	120V	11-100%	Reserve phase	KVF series	

### Photo of Lutron dimmer



MACL-153MH-LA



SCL-153PR-WH



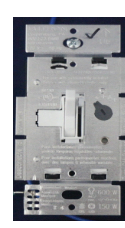
DVCL-153PR-WH



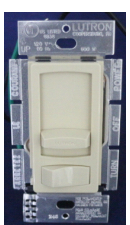
DVWCL-153PH-LA



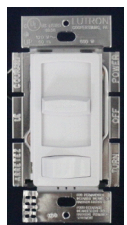
CTCL-153PDH-LATGCL-153PR-WH



TGCL-153PH-WH



CT-600PR-IV



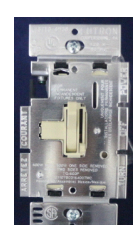
CT-600PR-WH/  
CT-603PGH-WH/  
CT-103PR-WH



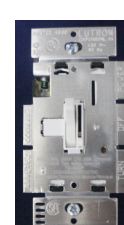
DV-600PR-BL



DV-600PR-WH/  
DV-603PGH-WH



TG-600PR-LA/  
TG-600PR-IV



TG-600PR-WH/  
TG-10PR-WH



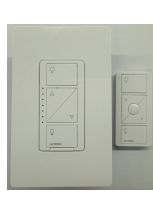
S-600PR-WH



PD-5NE-WH



DZ6HD



PD-6WCL



SELV-300P



MSCELV-600M



MRF2-6ELV-120



SF-12P-277

Compatible Dimmer List(JLM Series)


Dimmer Brand	Model number (Dimmer)	Input Voltage	Dimming Range	Forward Phase or Reserve phase	Compatible Driver (Series)	Remark
	NTLV-600-277-WH					/NTF-10-277

Photo of Leviton dimmer

						
VPI06-1LZ	TTI06	6602/6683	TBL03	6672	IPL06	6674
						
DZ6HD						

Photo of Legrand dimmer

		
RHCL453PNICCV6	WSCL450TCCCV4	LSCL453PLACCV
		4

Photo of Crestron dimmer


CLW-DELVEX-P-W-S

## JLM 0-10V tested dimmer list

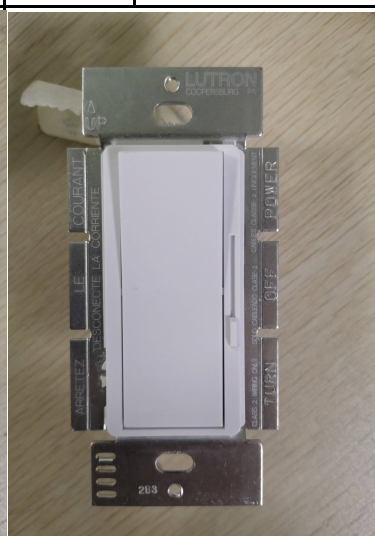
Brand	Model number	Input Volage	match	Dimming range	Driver	Remark
ARROW HART	DF10P-C1	120-277	OK	5-100%	KVG	Dimmer with spin button (adjust max. dimming )
Lutron	DVSTV-WH	120-277	OK	9-100%	KVG	Dimmer with spin button (adjust min. dimming 9%-25%)
	DVTV-WH	120-277	OK	9-100%	KVG	



DF10P-C1



DVSTV-WH



DVTV-WH