

## Din Rail 5 in 1 (Triac/0-10V/1-10V/Potentiometer/10V PWM) Dimmable LED driver

### Features:

- Output constant voltage
- Input voltage range: 100-277VAC
- UL/cUL listed, Class 2, Class P, FCC approval
- Built-in PFC function / Efficiency > 83% / PF > 0.99
- Dimming range: 0~100% / load: 10~100%
- Protections: short circuit/over voltage/over heat
- IP20 design for indoor dry or damp environment installations
- Cooling by free air convection.
- Dimming mode: 1) forward phase /leading edge ,MLV and Reverse phase /trailing edge ,ELV, TRIAC dimmers..  
2) 0-10V/1-10V/Potentiometer/10V PWM 4 in 1 available
- Full protection plastic housing, for dry, damp location only.
- Strong compatibility, flicker-free dimming
- Dimming range: 0~100%
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- 7 years warranty



12VDC, 24VDC / 60W, 100W  
available

### Specification:



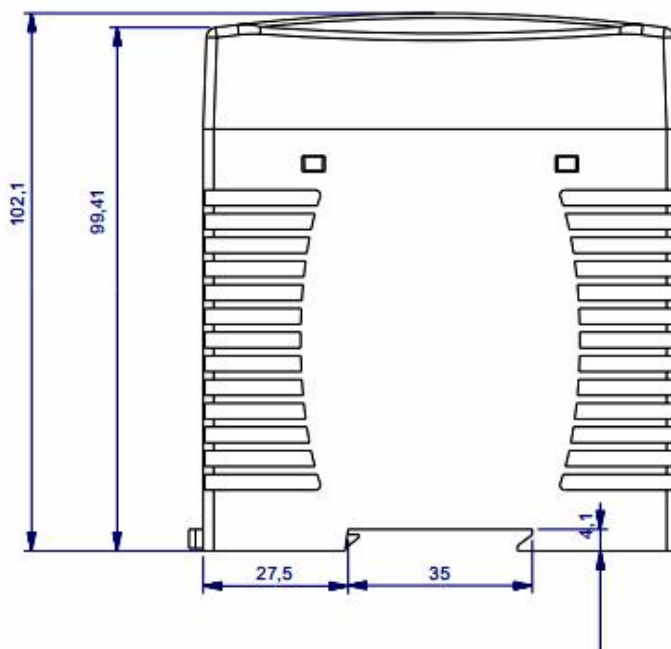
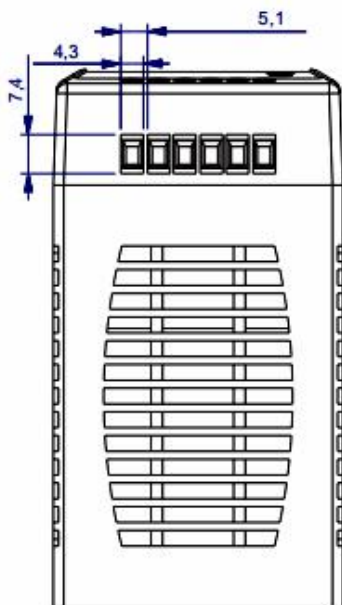
CE IP20 Class2 ClassP

model		CIP-012-100TDDR		CIP-024-096TDDR2	
Output	DC Voltage	12VDC		24VDC	
	Voltage Accuracy	±5%		±5%	
	Rated current	8.33Amp		4.0Amp	
	Rated power	100W		96W (Class 2)	
	Voltage Regulation	±0.5%			
	Load Regulation	±1%			
Input	Voltage Range	100-277 VAC			
	Frequency Range	47~63HZ			
	Power Factor ( Typ. )	0.98@120VAC ,0.95@277VAC		0.98@120VAC ,0.95@277VAC	
	THD(Typ. ) @ full load	<20%@120VAC & 277VAC			
	Full Load Efficiency	83%@120VAC, 85%@277VAC		83%@120VAC, 86%@277VAC	
	AC Current ( Typ. )	1.3A			
	Inrush Current ( Typ. )	20A, 50%, 1.6ms @120VAC; 25A, 50% 1.2ms @277VAC			
	Leakage current	<0.5mA			
	Protection	Short Circuit	shut down o/p voltage, re-power on to recover after fault condition removed		
Over Loading		≤120% Hiccup mode,recovers automatically after fault condition removed			
Over temperature		100℃±10℃ shut down o/p voltage, automatically recover after			
Environment	Working TEMP.	-40~+60℃			
	Working Humidity	20~90%RH.non-condensing			

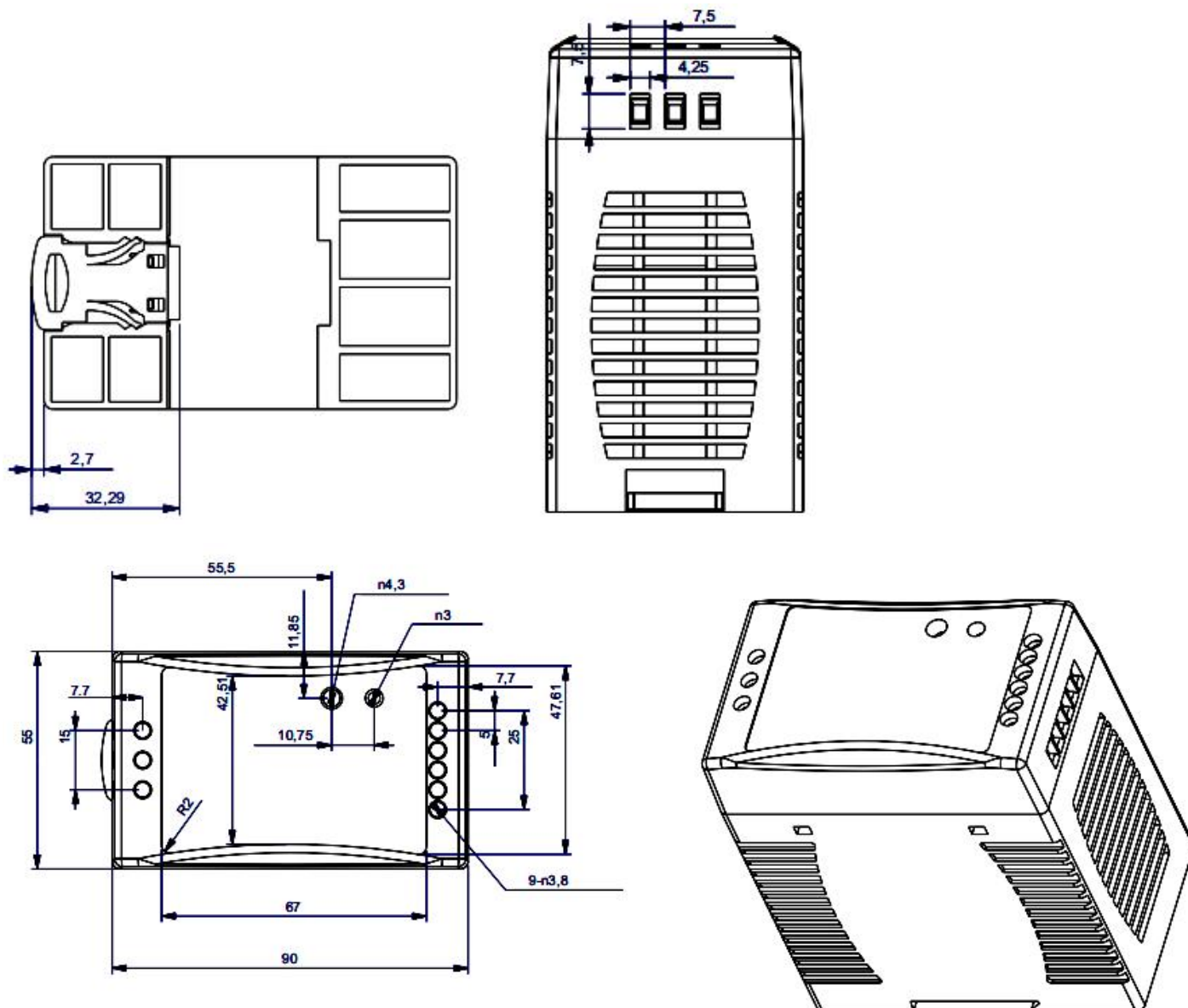


	Storage TEM.,Humidity	-40~+80℃ , 10~95%RH
	TEMP.coefficient	±0.03%/℃ (0~50℃)
	Vibration	10~500Hz, 2G 10min./1 cycle, period for 60min. each along X,Y,Z axes
<b>Safety&amp;EMC</b>	Safety standards	UL8750+UL1310 , CAN/CSA-C22.2 No.250.13
	Withstand voltage	I/P-O/P:1.88KVac
	Isolation resistance	I/P-O/P:100MΩ/500VDC/25℃/70%RH
	EMC EMISSION	FCC 47 CFR Part 15 ,Subpart B
<b>Others</b>	Weight	0.4Kg
	Size	55*90*100mm(L*W*H)
	packing	50PCS/CTN , carton size:330*330*130mm
<b>Notes</b>	<ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 110VAC, 277VAC input , Rated load and 25℃of ambient temperature.</li> <li>2. Tolerance:includes set us tolerance,line regulation and load regulation .</li> <li>3. The power supply is considered as a component that will be operated in combination with final Equipment. Since EMC performance will be affected by the complete installation, the final equipment manufactures must be-qualify EMC Directive on the complete installation again.</li> </ol>	

## ■ Mechanical Specification



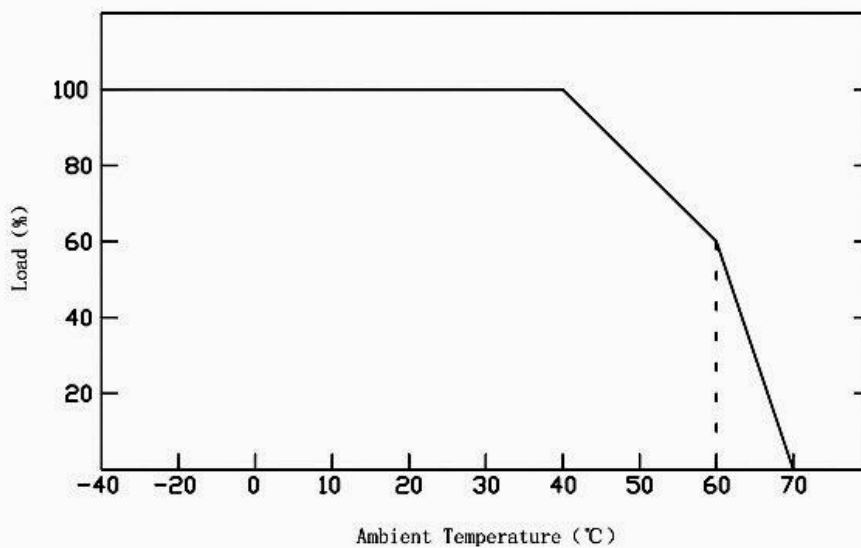




- Input with terminals Live(L) and Neutral(N) wires to be connected AC;
- Output LED SEC output Positive (LED+) , output negative(LED-). Connected to LED light.
- Output terminals DIM (+) to 0/1-10V dimmer signal(+ ),DIM (-) white connect to 0/1-10V dimmer signal (-)
- Please DO NOT connect "DIM-" to "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.

## ■Derating Curve

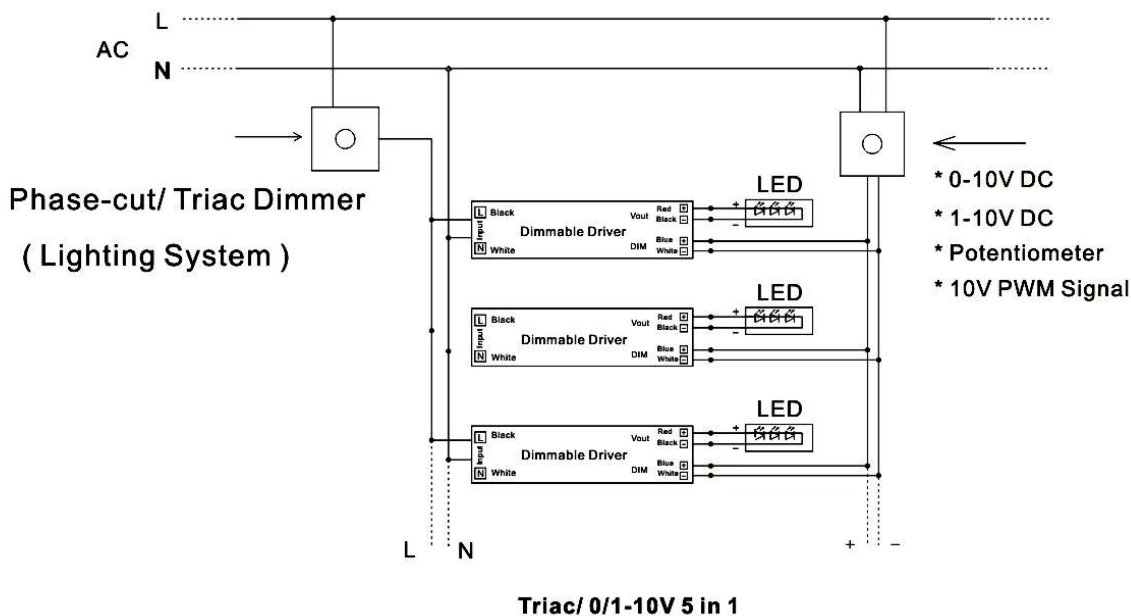




- Please refer to the Derating Curve and derate according to the temperature to extend their life.

## ■ Dimming Operation and Connecting Diagram

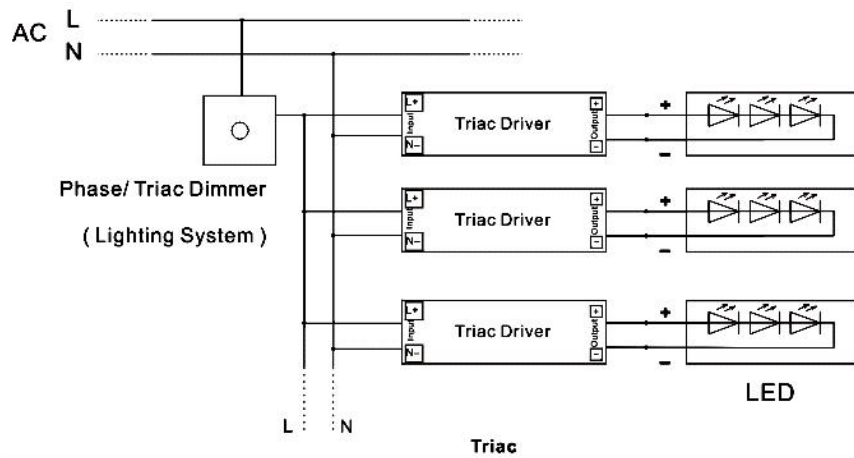
- **Using two ways of dimming at the same time**, customers should be assured that LED lighting is up to the max. Brightness then you could operate with the other dimming;



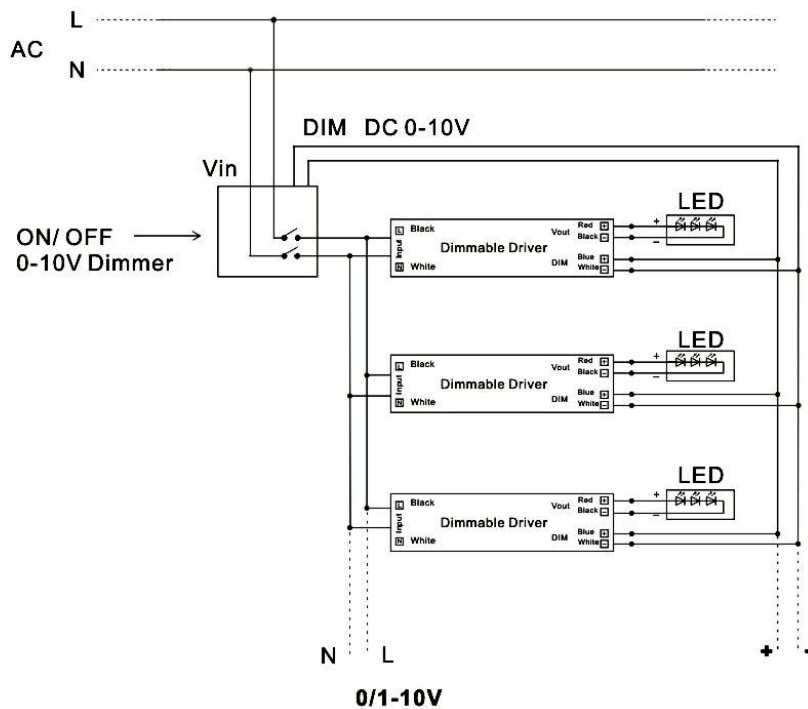
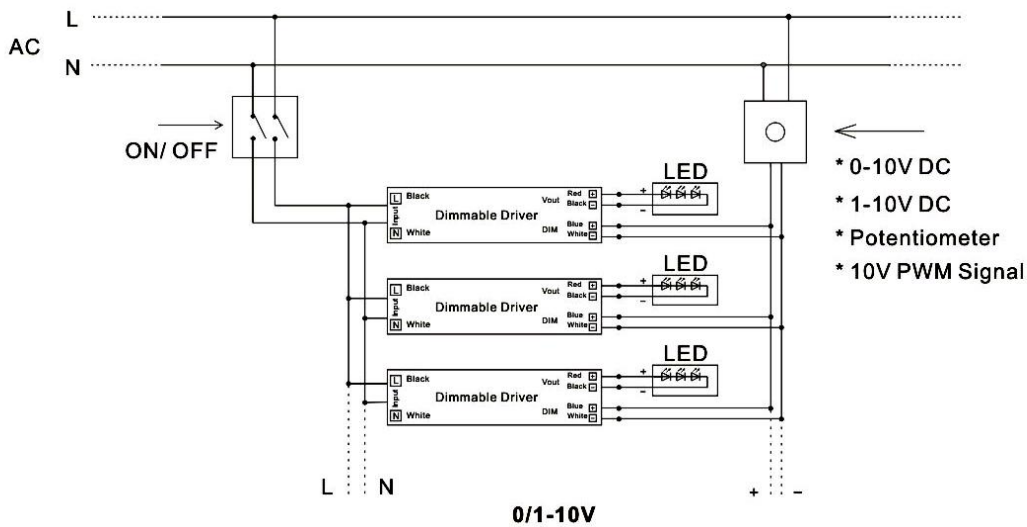
## Using one dimming ---TRIAC/Phase cut dimming

- 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.
- Working with forward phase /leading edge ,MLV and Reverse phase /trailing edge ,ELV, TRIAC dimmers
- Min loading is about 10%
- Please try to use dimmers with power at least 1.5 times as the output power of the driver.





## ➤ Using one dimming ---0-10V/1-10V dimming







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■ **Instruction:**

- This driver should be installed by qualified and professional person;
- Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.
- Ensure that wiring is correct before test in order to avoid light and power supply damage.