

Triac Dimmable LED driver

OTM-TD96 series

■Features:

- ·Output constant voltage
- ·UL cUL listed, Class 2, Class P, FCC, CE, RoHs, T24
- ·Universal input, 110-277Vac, 2 0 0-240Vac
- ·Build in active PFC, typical power factor>0.95
- ·High efficiency: up to 87%
- ·Load: 0.01-100%
- ·Short-circuit, over-temperature, over-load protection
- ·Full protection metal case, for dry, damp location Plastic enclosures can be used indoors
- ·Flicker-free
- ·Suitable for LED lighting and moving sign applications













Product advantage:

•Dim-all: Triac

• Switch to PWM or Voltage Reduce output

•Dimming effect:

Voltage Reduce mode: 100%-0.01% dim, stepless dimming, flicker-free,

PWM dim mode:100-0.1% dim, flicker-free

- •Triac dim mode: Forward phase & reverse phase, MLV, ELV dim
- •Flexible wiring compartment to adjust the AC and DC wiring space
- Plastic housing NEMA 4X for indoor and outdoor use; Wet, damp, and dry location
- Title 24 JA8 compliant
- •Constant voltage type, fine tune of output voltage
- Super low loading request, works perfect at 0.01-100% load.

7 years warranty

Dimming range: 100%-0.01% Ultra Deep Amplitude

No Vpeak-peak during driver on/off and dimming, no harm to the LED for long-term using, and slow down the speed of lumen depreciation.

Works with single channel CCT warm-dim LED strip/tape (2 wires).

Switching different output mode, can be compatible with more different types of LED lamps

compatible with DC-DC design LED fixture, such as MR16, PAR, wall washer, linear lighting, LED strip/type

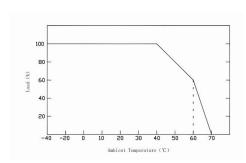




Specification

Model		OTM-PD90				
Certificates		CE, UKCA, UL, cUL listed, Class 2 unit, Type HL rated, FCC NEMA 4X,T24				
Output	DC Voltage	48V				
	Rated Current	1.875A				
	Rated Power	90W				
	Voltage Tolerance	±0.5V				
	Voltage Regulation	±0.5%				
	Load Regulation	±1%				
	Voltage Range	180-240VAC				
	Frequency Range	47-63Hz				
	Power Factor (Typ.) @ full loa	0.97@220VAC				
Input	THD(Typ.)@ full load	<20% @220VAC				
input	Efficiency (Typ.) @ full load	48V 87% @220Vac				
	AC Current (Max.)	0.409A@220Vac				
	Inrush Current (Typ.)	48A, 50%, 480us @220Vac				
	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% constant current limiting, auto-recovery				
	Over temperature	100℃±10℃ shut down o/p voltage, automatically recover after cooling.				
	Working TEMP.	-40∼+60°C (see below derating curve)				
	Working Humidity	20~90%RH, non-condensing				
Environmen	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& EM(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 Part 15 B				
others	Net. Weight	0.4Kg				
	Size	212*56*24mm (L*W*H)				
	packing	20PCS/CTN SIZE:270*220*140mm(L*W*H)				
Notes	1. All parameters if NOT specially mentioned are measured at 120VAC input , rated load and 25℃of ambient					
	temperature.					
	To extend the driver's using life ,please reduce the loading at lower input voltage.					
		0 1 0				

■ Derating Curve



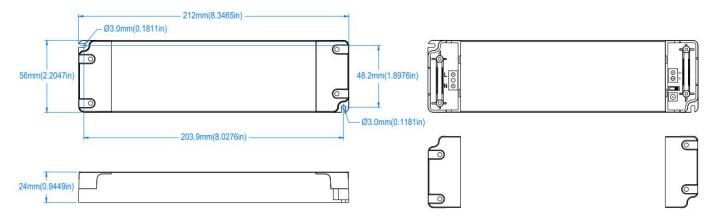
%To extend their life, please refer to the Derating Curve and derate according to the temperature.



■ Mechanical Specification

Unite: mm

Tolerance: 0.5-2mm

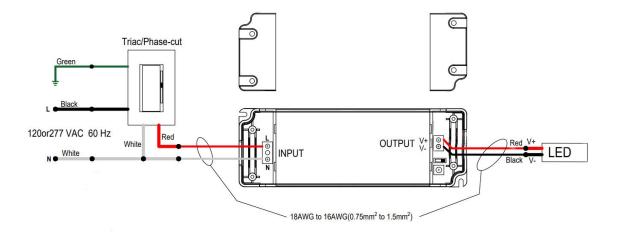


- ※Input with terminals Live(L) and Neutral(N) wires to be connected AC;
- **Output LED SEC output Positive (LED+), output negative(LED-). Connected to LED light.
- **Please make sure your connect these correctly otherwise your product will not function correctly and could be damaged.
- *Note: Any other requests we can customized.

■ Connecting Diagram

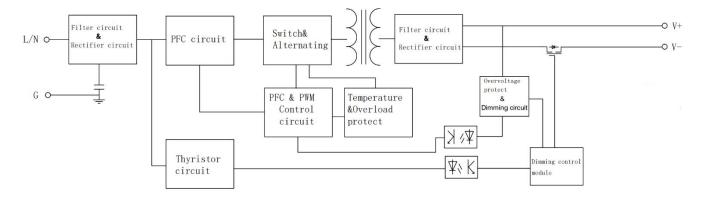
***Using TRIAC/Phase cut dimming**

- 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. Work with forward phase /leading edge ,MLV and reverse phase /trailing edge ,ELV,TRIAC dimmers.
- 3.Please try to use dimmers with power at least 1.5 times as the output power of the driver.

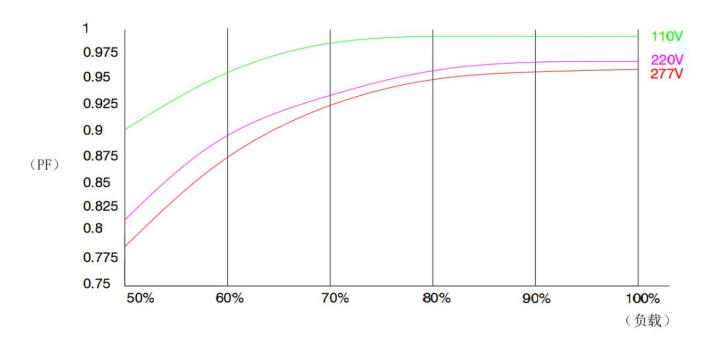




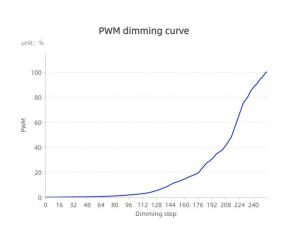
%The topology



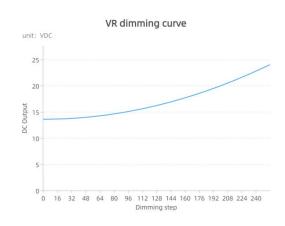
***PFC** load graph







$\mathbf{XVR} \ \mathbf{dimming} \ \mathbf{curve}$

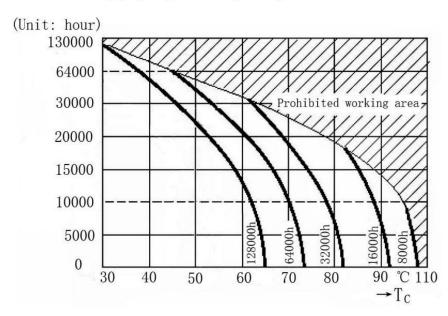




■ Instruction:

- 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;

Power supply operating temperature and life curve



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Dokumentation der Funktionalität verschiedener Netzteile mit Dimmern

LED System: luxKIT

		Busch - Jaeger	Feller	Feller	GIRA	GIRA	Berker
Netzteil / Dimmer:		6523 U-102	40420.RLC	40600.RL	3000 2455 00/03	3000 2450 00/02	296-M0
	EAN Nr.:	4011395212677	7611386305660	7611386205793	4010337031413	4010337031406	4011334510147
OTM-PD60	7640382275080						
OTM-PD90	7640382275103						
KS-200AW-48T	7640382275158						
KS-300AW-48T	7640382275165						



* leichte Geräuschbildung beim Dimmen oder im Betrieb / leichtes flackern während Dimmvorgang, verschwindet jedoch inerhalb von bis zu 3 Sekunden

** laute Geräuschbildung beim Dimmen oder in Betrieb / stetiges flackern oder ausfallen einer Leuchte während Dimmvorgang / Dimmen nicht möglich