

96W Dimmable LED Driver - IP67



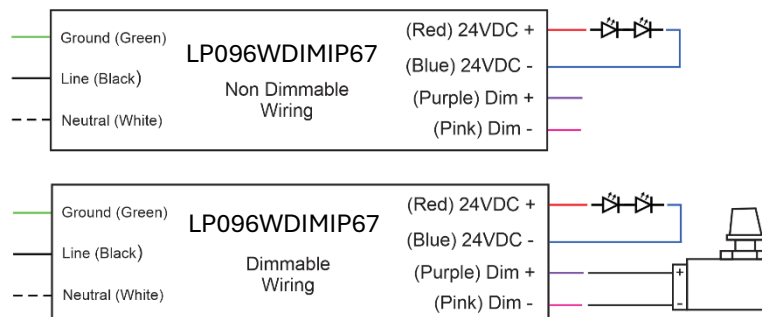
Description

LP096WDIMIP67 series is a 96W AC/DC LED Driver ideally suited for KLIK USA LED and LEDpod lighting installations. It operates from 90 to 305VAC and features 0-10V dimming for most typical LED and LEDpod installations. It's certified IP67 rating makes it ideal for tough outdoor installations and it's 100% made in the USA, insuring a high-quality construction. Operating at 93% efficiency with a heavy-duty aluminum case allows it to run cool when used in extreme temperature ranges (-40° to 80 °C case temp).

Features

- 96W, 24VDC output
- Constant voltage design
- Aluminum case construction
- 0-10V Dimming capable (PWM)
- Case grounded for extra safety
- Multiple mounting configurations
- 90V-305 VAC Input
- Water & dust proof IP67 Rated
- Fully UL Listed for standalone use
- Works with all KLIKUSA LED lights and LEDpods
- Designed to fit in KLIK USA Universal NEMA4 LED Driver Junction Box p/n LPNEMA4XTROSS

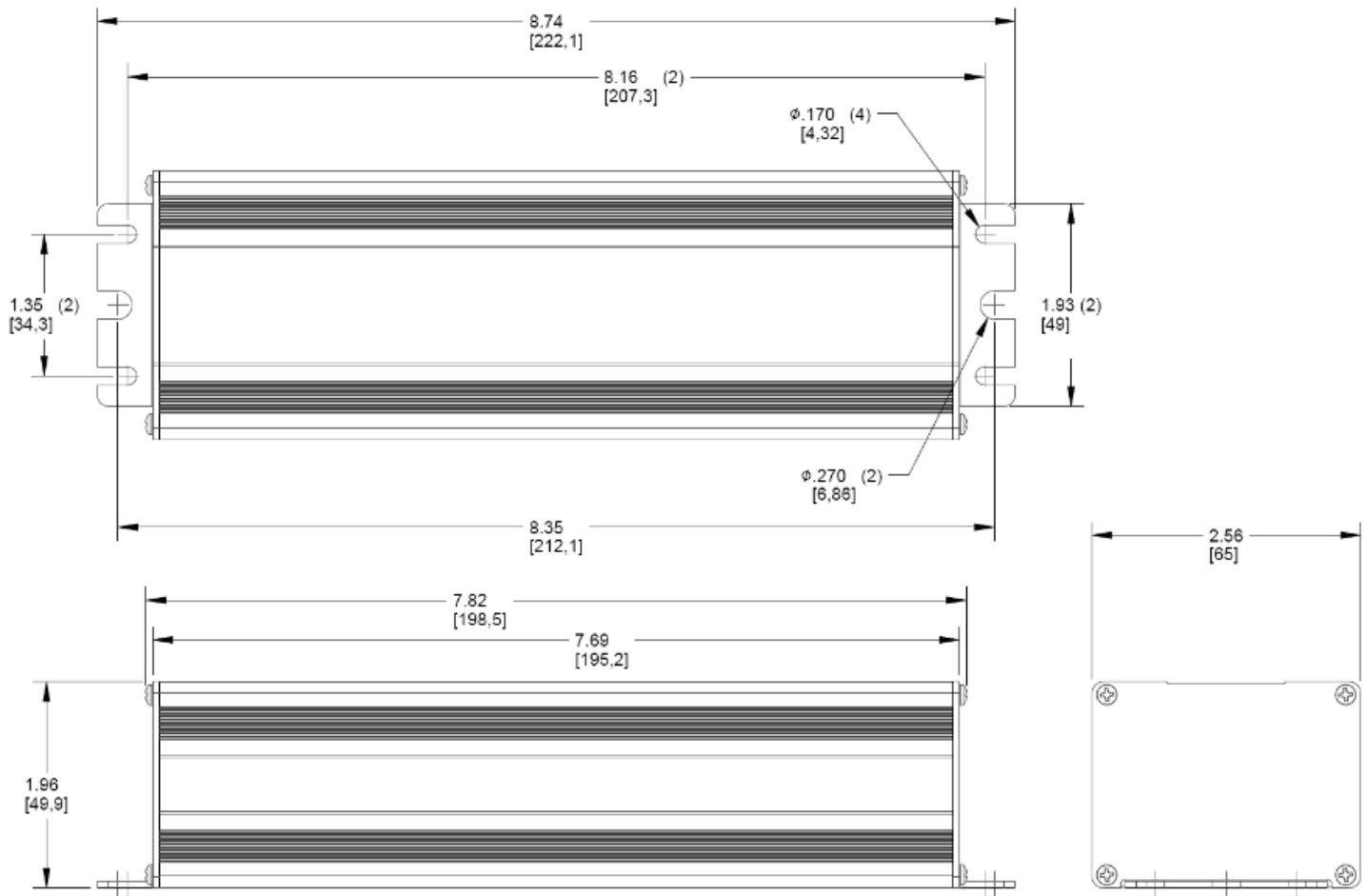
Wiring



Specification

OUTPUT	
DC VOLTAGE	24V
CONSTANT CURRENT REGION	Note 2 12-24V
RATED CURRENT	4A
RATED POWER	96W
RIPPLE & NOISE (max.)	Note 1 10mVp-p
VOLTAGE ADJ. RANGE	22-27V
CURRENT ADJ. RANGE	2.5~4A
VOLTAGE TOLERANCE	±1.0%
LINE REGULATION	±0.5%
LOAD REGULATION	±0.5%
SETUP RISE TIME	Note 4 1200ms, 50ms, /115VAC 500ms, 50ms/230VAC
HOLD UP TIME (Typ.)	16ms / 115VAC, 230VAC
INPUT	
VOLTAGE RANGE	Note 3 90~305VAC 127-431VDC
FREQUENCY RANGE	47~63Hz
POWER FACTOR (Typ.)	PF≥0.98/115VAC @ full load PF≥0.95/230VAC @ full load PF≥0.93/277VAC @ full load
TOTAL HARMONIC DISTORTION	THD<20% (@load≥60% / 115VAC, 230VAC; @ LOAD ≥75% / 277VAC) (Please refer to "total harmonic distortion (THD)* section
EFFICIENCY (Typ.)	93%
AC CURRENT (Typ.)	1.2A / 115VAC 0.55A / 230VAC 0.5A / 277VAC
INRUSH CURRENT (Typ.)	COLD START 60A (twidh=450μs measured at 50% Ipeak) at 230VAC; Per NEMA 410
MAX No. of PSU's ON 16a	4 units (circuit breaker of type B) at 115VAC
CIRCUIT BREAKER	8 units (circuit breaker of type B) at 230VAC
LEAKAGE CURRENT	<0.75mA / 277VAC
PROTECTION	
OVER CURRENT	95~106% Constant current limiting, recovers automatically after temperature goes down
SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed
OVER VOLTAGE	28~34V Shut down o/p voltage with auto-recovery or re-power on to recovery
OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down
ENVIRONMENT	
WORKING TEMP.	Tcase= -40 ~ +80 (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)
MAX. CASE TEMP.	Tcase= +80
WORKING HUMIDITY	20 ~ 95% RH non-condensing
STORAGE TEMP., HUMIDITY	-40 ~ +80 , 10 ~ 95% RH
TEMP. COEFFICIENT	±0.03%/ (0 ~ 60)
VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes
SAFETY & EMC	
SAFETY STANDARDS	Note 5 UL8750(type"HL"), CSA C22.2 No. 250.0-08; TUV EN61347-1, EN61347-2-13 independent; GB19510.1, GB19510.14, IP65 or IP67, J61347-1, J61347-2-13 approved; design refer to UL60950-1, TUV EN60950-1
WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25 / 70% RH
EMC EMISSION	Note 5 Compliance to EN55015, EN55032 Class B, EN61000-3-2 Class C (@ load 60%); EN61000-3-3, GB17743 and GB17625.1
EMC IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV)
ADDITIONAL	
MTBF	192.2K hrs min. MIL-HDBK-217F (25)
DIMENSION	220*68*38.8mm (L*W*H)
NOTES	
1. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μf & 47μ parallel capacitor. 2. Please refer to "DRIVING METHODS OF LED MODULE". 3. De-rating may be needed under low input voltage. Please refer to "STATIC CHARACTERISTICS" section for details. 4. Length of setup time is measured at first cold start. Turing ON/OFF the driver may lead to increased of the setup time. 5. To fulfill requirements of the latest ErP regulation for lighting fixture, this LED driver can only be used behind a switch without permanently connected to the mains.	

Mechanical



Note: Driver shown without wire leads
in [mm]