

Marine Grade Power Supply for StarGazer Downlight



Comes with feet & flanges.

PREMIUM POLYCARBONATE ENCLOSURE

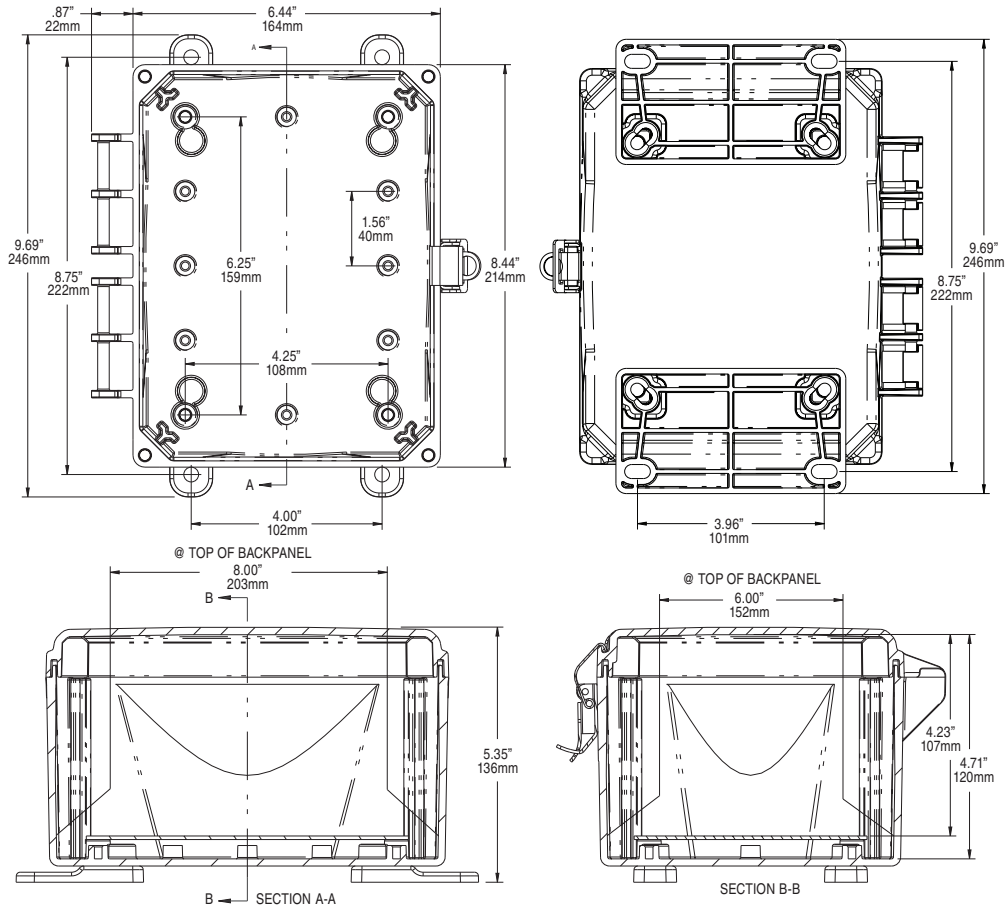
Features and Benefits

- Standard color – light gray with a gloss finish.
 - Best material – base & cover are made of high-impact, UV resistant polycarbonate.
 - Easy ordering – one part number includes base, lid, mounting feet or flanges and all lid fastening hardware.
 - Features multiple bosses for easy installation of devices and DIN rails.
- UL-50 / c-UL Listed (files # E229365, # E207562)

Mechanical and Thermal	Test Spec.	Unit	Premium Line
Instrumented Dart Impact @ 73° F		in/lb.	565
Falling Ball Impact @ 73° F	UL-746	in/lb.	900
Deflection Temperature @ 264 psi	ASTM D648	Deg. F	270
Modulus of Elasticity	ASTM D790	ksi	340
Temperature Range		Deg. F	-40 to 265
Flammable / UV Ratings	Test Spec.	Unit	Premium Line
Flame Rating - UL	UL 94	-	5VA
Outdoor UV Exposure	UL	-	F1



P/N	4X IP66	6P IP68	Hinged Cover	Screw Cover	Opaque Cover	Clear Cover	Mounting Feet	Mounting Flange	Stainless Steel Locking Latch	Non-Metallic Locking Latch
SG-MG-DRIVER	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



Wiring Instructions

WARNING: Always install fixture(s) according to National Electrical Code (NEC) and local codes. Failure to do so will void the warranty and could cause damage to the fixture(s) or may result in personal injury.

NOTE: THIS FIXTURE CONTAINS ELECTRONIC COMPONENTS THAT CAN BE SENSITIVE TO VOLTAGE SURGES AND LIGHTNING. EAGLE MOUNTAIN FLAG & FLAGPOLE RECOMMENDS THAT ALL SYSTEMS BE PROPERLY GROUNDED AGAINST TRANSIENT ELECTRICAL SURGES. EAGLE MOUNTAIN FLAG & FLAGPOLE PROVIDES GROUNDING SYSTEMS FROM THE LIGHT SOURCE TO THE DRIVER.

NOTE: FIXTURE MUST BE INSTALLED BY A LICENSED ELECTRICIAN. THESE INSTRUCTIONS DO NOT COVER ALL DETAILS OR VARIATIONS IN EQUIPMENT, NOR DO THEY PROVIDE FOR EVERY UNCERTAINTY RELATED TO INSTALLATION, OPERATIONS, MAINTENANCE OR MOUNTING CONTINGENCY. SHOULD SPECIFIC PROBLEMS OCCUR THAT ARE NOT COVERED SUFFICIENTLY FOR THE PURCHASER'S PURPOSE, CONTACT EAGLE MOUNTAIN FOR ADDITIONAL PRODUCT OR APPLICATION INFORMATION.

CAUTION: DO NOT RUN LINE VOLTAGE (110V/208V/277V) INSIDE THE FLAGPOLE. THE LOW VOLTAGE CABLE ATTACHED TO THE STARGAZER DOWNLIGHT IS SAFE INSIDE THE FLAGPOLE. LINE VOLTAGE (110V/208V/277V) IS AN ELECTRICAL HAZARD IF IT IS INSIDE THE FLAGPOLE. ALL ELECTRICAL CONNECTIONS MUST BE MADE INSIDE THE POWER SUPPLY*. DO NOT WIRE STARGAZER DOWNLIGHT DIRECTLY TO LINE VOLTAGE. THE LINE VOLTAGE (110V/208V/277V) AND THE LOW VOLTAGE WIRE PROVIDED MUST BE CONNECTED INSIDE THE POWER SUPPLY LOCATED INSIDE THE EAGLE MOUNTAIN FLAG ENCLOSURE BOX PROVIDED. DO NOT MOUNT ENCLOSURE BOX TO FLAGPOLE.

**IMPROPER INSTALLATION AND/OR UTILIZATION WILL VOID
MANUFACTURER'S WARRANTY.**

- 1) The power supply comes in an Eagle Mountain Flag enclosure box. The enclosure box must be mounted OUTSIDE of the flagpole and can be located up to 150' away from the StarGazer Downlight. DO NOT PLACE ENCLOSURE BOX INSIDE OF YOUR FLAGPOLE. DO NOT BURY THE ENCLOSURE BOX. (Excluding the In-Ground/Burial Power Supply; SG-IG-DRIVER)
- 2) Identify and attach secondary side wires from LED Driver to low voltage cable using wire nuts (provided). Make sure to observe polarity. **RED to RED (+), BLACK to BLACK (-)** It is strongly recommended to use a color coded 18-gauge 2 strand cable that is provided by Eagle Mountain Flag & Flagpole when wiring the StarGazer Downlight inside the power supply.
- 3) Mount the enclosure box remotely outside of the flagpole taking special care not to pinch wires.
- 4) Supply power to the power supply and check to see that it is operating properly.

SPECIFICATIONS

OUTPUT 24VDC	SETUP, RISE TIME <small>Note.6</small>	1000ms, 80ms / 115VAC	500ms, 80ms / 230VAC	
	HOLD UP TIME (Typ.)	16ms/230VAC	16ms/115VAC	
INPUT	VOLTAGE RANGE <small>Note.5</small>	90 ~ 305VAC	127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)	
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR	PF \geq 0.97/115VAC, PF \geq 0.95/230VAC, PF \geq 0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)		
	TOTAL HARMONIC DISTORTION	THD < 20% (@load \geq 60%/115VAC, 230VAC; @load \geq 75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)		
	EFFICIENCY (Typ.)	87%		
	AC CURRENT	0.6A / 115VAC	0.3A / 230VAC	0.25A/277VAC
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=210 μ s measured at 50% Ipeak) at 230VAC; Per NEMA 410		
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	12 units (circuit breaker of type B) / 20 units (circuit breaker of type C) at 230VAC		
	LEAKAGE CURRENT	<0.75mA / 240VAC		
PROTECTION	OVER CURRENT	95 ~ 108% Constant current limiting, recovers automatically after fault condition is removed		
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed		
	OVER VOLTAGE	28 ~ 35V Shut down and latch off o/p voltage, re-power on to recover		
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover		
ENVIRONMENT	WORKING TEMP.	Tcase=-40 ~ +80°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)		
	MAX. CASE TEMP.	Tcase=+80°C		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH		
	TEMP. COEFFICIENT	\pm 0.03%/°C (0 ~ 50°C)		
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes		
SAFETY & EMC	SAFETY STANDARDS <small>Note.8</small>	UL8750, CSA C22.2 No. 250.0-08(except for 48V, 54V), ENEC EN61347-1, EN61347-2-13 independent, EN62384, IP67, J61347-1, J61347-2-13 approved ; design refer to UL60950-1, TUV EN60950-1		
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC		
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH		
	EMC EMISSION <small>Note.8</small>	Compliance to EN55015,EN61000-3-2 Class C (@load \geq 60%) ; EN61000-3-3		
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Line 2KV)		
OTHERS	MTBF	438.8Khrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	162.5*43*32mm (L*W*H)		
	PACKING	0.44Kg; 32pcs/15.08Kg/0.93CUFT		

NOTE

1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.
2. Please refer to "DRIVING METHODS OF LED MODULE".
3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ f & 47 μ f parallel capacitor.
4. Tolerance: includes set up tolerance, line regulation and load regulation.
5. De-rating may be needed under low input voltages.
6. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.
7. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently connected to the mains.
8. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly tc point (or TMP, per DLC), is about 75°C or less.
9. Please refer to the warranty statement on MEAN WELL's website at <http://www.meanwell.com>