7))) NORRIS DESIGN
Planning | Landscape Architecture | Branding

> 901 East Madison Street Phoenix, AZ 85034

P 602.254.9600 www.norris-design.com

OWNER:

DESERT VISTA 100, LLC (BLANDFORD HOMES ENTITY) 3321 EAST BASELINE ROAD GILBERT, AZ 85234 CONTACT TEL NUMBER

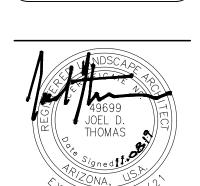
Contact Arizona 811 at least two full working days before you begin excavation

AR ZONA811

Call 811 or click Arizona811.com

(1) COMMUNITY VIEW WALL (4' VIEW FENCE OVER 2' WALL) - SEE DETAIL 3/LA-202

- 2 COMMUNITY THEME COLUMN
- (3) S4X7.7 'I' BEAM FRAME AND INTERIOR HORIZONTAL RAILS. PRIMED AND PAINTED, COLOR
- 4 S4X7.7 VERTICAL 'I' BEAMS RAILS. PRIMED AND PAINTED, COLOR
- 5 SOLID METAL FLAT BAR ACCENT PIECES WELDED BETWEEN 'I' BEAM FLANGES TO CREATE A 'OVERLAPPING BOXED' LOOK. PRIMED AND PAINTED, COLOR
- 6 HEAVY DUTY GATE HINGES WELDED TO 6"x6" GATE POST. PRIMED AND PAINTED TO MATCH
- 7) 6"x6" STEEL POST SET IN FOOTING PER STRUCTURAL ENGINEER. PRIMED AND PAINTED TO MATCH GATE



DATE: 10.07.19 PRE-PLAT 11.08.19 PRE-PLAT

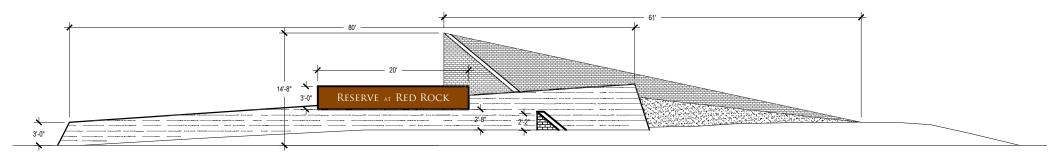
SHEET TITLE: WALL PLAN

LA-203

COMMUNITY ENTRY GATE

SCALE: 1/4" = 1'-0"

Community Monument Sign Located at the Corner of Recker Road and Thomas Road







PRODUCT DATA SHEET



Soft Communes Commune

15 Year Warranty







Description

The Outdoor UltraBright™ Architectural Series LED strip lights are the most popular series of strip lights offered at Flexfire LEDs. Their high brightness of up to 519 lumens per foot and efficacy of up to 100 lm/W, coupled with their long run length capability of 32' make this strip a must-have lighting tool for an architect, designer, OEM, contractor, or homeowner. The IP65 silicone cover protection not only allows the lights to be protected from a range of outdoor elements and withstand jets of water, but also makes them extremely easy to clean. The very high lumen output, excellent color rendering and consistency, and flexible design of LED strips means that beautiful lighting can be installed in basically any space you can imagine.

Product Features

- High CRI of 80+
- Highest Brightness Up to 519 Lumen/ft (1,703/Meter)
- Fully dimmable
- Highest quality components and premium packaged
 3014 LEDs
- Single BIN LED selection to ensure color consistency (3-Step MacAdam)
- 3M 9731 adhesive for a strong bond to the weatherproof silicone sleeve
- 120° Beam Angle
- Efficiency up to 100 lm/W

- Only 1/2" (12mm) strip width
- Short LED pitch of 1/4" (7mm)
- 24V DC Input
- Can be cut every 2" (51mm)
- 42 LEDs / Foot (140 / Meter)
- Thick double layer 2 oz copper PCB for excellent thermal management
- Operating Temperature -4°F to +104°F (-20°C to 40°C)
- Maximum Length in Series 32ft 10in (10 Meters)
- IP65 Rated with non-yellowing and UV resistant silicone sleeve

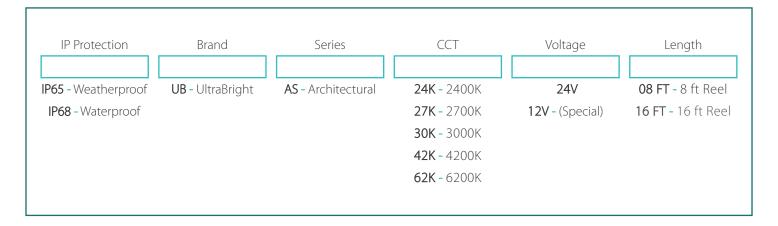
Product Specific Specifications

Product. SKU	Color* (CCT)	Watts / foot (Meter)	Lumen / foot (Meter)	Luminous efficacy (Lumens / Watt)	CRI	Gamut Score Rg (Color Sat.)	Relative Fidelity Score (RF)
IP65-UB-AS-24K	2400K	5.1 W/ft 16.8 W/m	374 lm/ft (1,227 lm/m)	72 lm/W	81	Coming Soon	Coming Soon
IP65-UB-AS-27K	2700K	5.1 W/ft 16.8 W/m	457 lm/ft (1,500 lm/m)	88 lm/W	81	Coming Soon	Coming Soon
IP65-UB-AS-30K	3000K	5.1 W/ft 16.8 W/m	441 lm/ft (1,447 lm/m)	85 lm/W	81	95.3	82.4
IP65-UB-AS-42K	4200K	5.1 W/ft 16.8 W/m	471 lm/ft (1,545 lm/m)	91 lm/W	82	93.4	82.3
IP65-UB-AS-62K	6200K	5.1 W/ft 16.8 W/m	519 lm/ft (1,703 lm/m)	100 lm/W	83	95.6	80.8

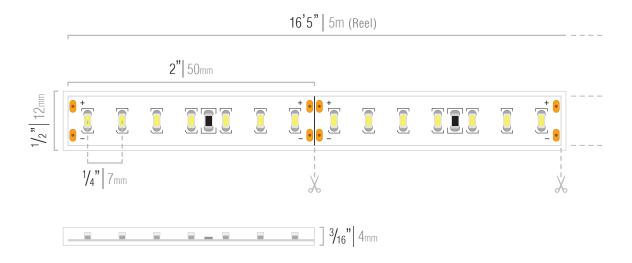
^{*}CCT may be +/-100K but always ordered from same bin and will present no noticeable differences perceived by the human eye.

Ordering Code

OUTDOOR



Dimensions



 $_{\mathsf{page}}2$

Example Installation and Layout

IN SERIES

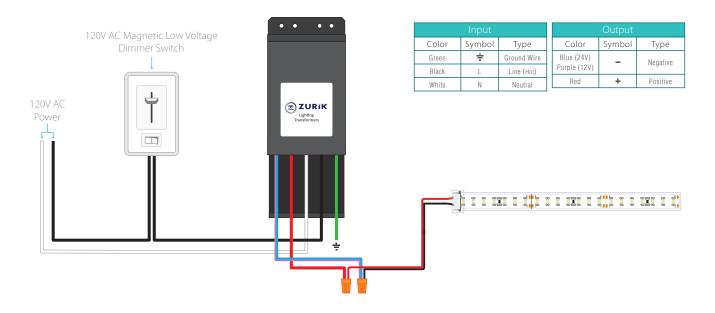


IN PARALLEL

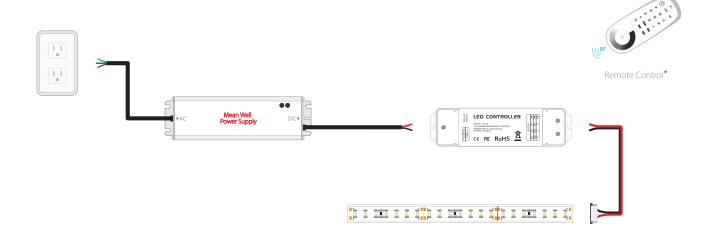


Dimming Options

Lutron Style Wall Dimmer

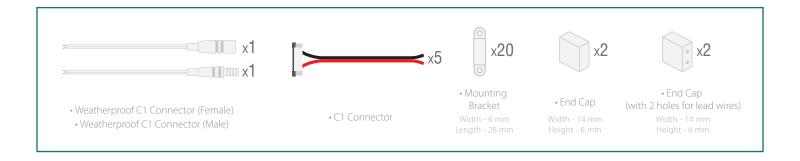


In-Line Dimming



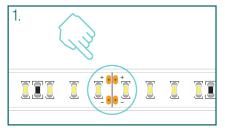
* Remote Control (SKU: SC-MZ-CTRL) can be paired to 8 total receivers. Multiple remotes cannot be paired to a single receiver (max 1 remote per receiver).

Included Accessories



Resealing Outdoor Strips

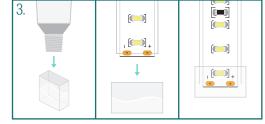
Sealing Outdoor Strips with End Caps



Find the cut line on the strip (between the solder pads).

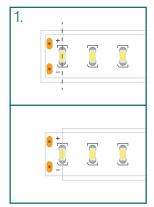


Carefully cut the strip on the cut line.

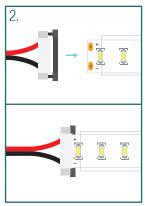


Fill an end cap (without holes) with sealant and slide it over the end of the strip until it fits snugly.

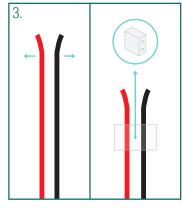
Sealing Outdoor Strips with End Caps and a Solderless Connector



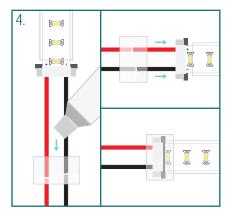
Cut the strip and remove the silicone covering just enough to expose the solder pads on the strip.



Carefully insert the strip into the connector and ensure it fits snugly.



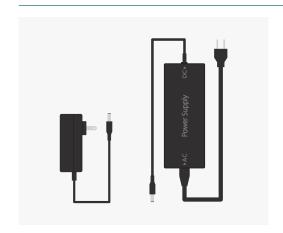
Spread the wires on the connetor and slide them through the holes in the end cap.



Fill the end cap (with holes) with sealant and slide carefully over the connector at the end of the strip.

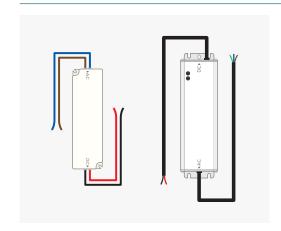
Compatible Drivers (24v only)

Wall Mounted Power Supply / Desktop Power Supply



LED Strip Length	SKU
1 - 4 ft	24V-WMPS-1
5 - 10 ft	24V-DPS-2.5
10-16 ft	24V-DPS-4
12-20 ft	24V-DPS-5

Mean Well



SKU
LPV-20-24
HLG-40H-24A
HLG-60H-24A
HLG-80H-24BL
HLG-100H-24A
HLG-120H-24A
HLG-185H-24A
HLG-240H-24A

LED Strip Length	SKU
32 - 54 ft 54 - 100 ft	HLG-320H-24A HLG-600H-24A
3000	20 000 2

Zurik



LED Strip Length	SKU
2-3 ft	ZRK-20-24VDC
4-6 ft	ZRK-40-24VDC
5-8 ft	ZRK-50-24VDC
8-12 ft	ZRK-75-24VDC
10-16 ft	ZRK-100-24VDC
15-24 ft	ZRK-150-24VDC
20-32 ft	ZRK-200-24VDC
25-40 ft	ZRK-250-24VDC
30-50 ft	ZRK-300-24VDC

Compatible Aluminum Extrusions

▶ KLUS GIP Anodized Extrusion





Covers

- G-L Frosted Cover (SKU: KL-00413-1m)

End Cans

- GIP - L End Cap without Wire Hole (SKU: KL-00306)

Mounting Accessories

- GP Surface Spring (SKU: KL-00293)
- minimum surface thickness 10mm (3/8")
- Mounting Bracket (SKU: KL-24143)

► GIZA Anodized Extrusion

(SKU: KL-B5556ANODA-1m)



Covers

- HS 22 Clear Cover (SKU: KL-17022-1m)
- HS 22 Frosted Cover (SKU: KL-17011-1m)

End Caps

- GIZA End Cap without Wire Hole (SKU: KL-24007)

NOTE: Fits Without IP65 End Caps

Mounting Accessories

- GP Surface Spring (SKU: KL-00293)
- minimum surface thickness 10mm (3/8")
- Mounting Bracket (SKU: KL-24143)

Safety And Disclosures

- 1. Installation must be in accordance with local and national electrical code regulations.
- 2. To ensure safety and correct installation, our strips are intended to be installed by a qualified, licensed electrician.
- 3. Only install with a Class 2 DC Constant Voltage LED driver to meet UL requirements.
- 4. Do not install in environment where excessive heat may occur.
- 5. LED strip lights must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.
- 6. Do not install indoor LED tape light products in outdoor / wet location environments. Only use copper wiring. Use wires rated for at least 176°F (80°C) and certified for use with external connection of electrical equipment.
- 7. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
- 8. Make sure the appropriate gauge wire is installed between driver, LEDs, and any dimmers. When choosing wire, calculate voltage drop, maximum amperage rating, and the location ratings on the wire. Improper wire selection and installation could overheat wires, and cause fire.
- 9. Do not modify product beyond instructions or warranty will be void.
- 10. We reserve the right to modify and improve the design of our fixtures without prior notice. Although we try our best to order the same colors every time, due to changes in technology and phosphors over time, we cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.

Warranty Information

Limited Warranty

This product has a 15 year limited warranty from the date of shipment. This warranty only includes the main product outlined in this specification sheet and does not include the additional accessories that are used as a reference. Complete warranty details for fixtures and additional accessories are available at https://www.flexfireleds.com/warranties/ within the Policies section. For warranty related questions please contact product support team at (support@flexfireleds.com).

Consumer's Acknowledgment

Flexfire LEDs, Inc. stands behind its products when they are used properly and according to our specifications. When you purchase our products, you are agreeing to the terms and conditions outlined in our warranty section. We try our best to make recommendations, but the burden of proper installation, design, and maintenance relies on the purchaser.

This limited warranty does not include product failures that are the result of:

Not using a voltage regulated power supply to connect the LED product or controls; Connecting LED products to the wrong output voltage; Improper connection of power supplies, LED products, or controls; Connecting LED products or controls directly to any AC power source if they are stated for DC only input; Connecting power supplies backwards to an AC power source; Products used in an inappropriate location or in environmental conditions (temperature, humidity, moisture, etc.) outside the normal specified range; Water damage to products not specifically sold as waterproof products; Electrical power surges and spikes; Damage from hail, flooding, tornado, fire, wind, earthquake, lightning, electrical storm, or any other natural disasters or "force majeure" incidences; Damage caused by a vehicle or other accident; Damage caused when transporting the item; Damage to any products that were modified by the user, used for purposes other than as intended or directed, or connected to LED systems or components not purchased from Flexfire LEDs; Products that have been subjected to misuse, mishandling, misapplication or accident. Products used in connection with any components, devices or systems other than those explicitly approved as compatible with Company's products and listed on Company's website. Excessive wear and tear and/or physical or accidental abuse, loss, or theft. Improper repairs or warranty services performed by someone other than Flexfire LEDs will void this warranty.

2019.08.28 page (



Juno™ Smartphone LED Dimmer

Bluetooth Controlled with additional RF Remotes

FF-JUN-APP-SC-COMBO

Juno™ Series

- Auto Circuit Protection
- Support iOS & Android
- Bluetooth Connection
- RF Remote Included
- Waterproof
- Ultra-Slim Design
- High Power Output
- 6-24V Voltage Range

User's Manual

channel and the black input wire to DC negative. Be sure the power supply voltage is the same as the LED load voltage and the power is large enough for the wattage load.

2. Connecting the Receiver to your Lights

This bluetooth controller is only compatible with constant voltage LED products. The red output wire must be connected to the positive (+) channel on the strip light and the black output wire to the negative (-) channel on the LED strip. Securely connect all the wires as instructed and double check that the polarities are matching before turning on the power.

3. Status Indicator Light

The full color status indicator displays all working states of the controller indicating different events as follows:

Blue fast flash: Starting up.

Blue/yellow fast flash: Waiting for bluetooth pairing.

Blue with short yellow flash: Bluetooth connected.

Steady blue: Bluetooth disconnected.

White flash 3 times: New RF remote paired. Short single white flash: New command received.

Red flash: Overload short circuit.

Yellow flash: Overheat short circuit.

Introduction

The Juno™ Series Smartphone LED controller is to be used for single color output strip lights running on 6-24VDC. It allows you to control your LED strip lights from your smartphone via a Bluetooth connection. Simply download and connect the 'ColorEasy1 Plus' app on iOS or Android smartphones to control your lights. With a PWM frequency of 8000 Hz, it is flicker free for video and photography uses. The included RF remote control can be used for a simple on/off function and choosing preset brightness options set in the smartphone app.



Installation

1. DC Power Input

This bluetooth LED controller will run on 6-24VDC. The red input power wire should be connected to the power supply's DC positive

Operation

1. Bluetooth Pairing

- The Juno™ Single Color LED Controller connects to smartphones via bluetooth. Scan the QR code on this sheet to find the app in the store and download it to your phone. You must pair your smartphone to the app to control your lights.
- Once the receiver is powered on, the controller will enter pairing mode for 90 seconds and the indicator will flash blue and yellow. During this period, you can search for bluetooth devices on the smartphone bluetooth setting page. Connect to 'LED-XXX'; the X is the serial number of the controller. The unpaired smartphone can only discover a controller in this 90-second period. To enter the pairing mode again, the controller must be turned off and turned back on again.

2. Bluetooth Auto Reconnecting

The default setting of the receiver enables an auto-reconnecting feature. The controller will automatically connect to the latest paired smartphone when in range. However, if auto-reconnect is not desired, it can be disabled in the app's setup page when the controller is connected to the smartphone. When the auto-reconnecting

feature is set to off, the user can still manually connect to the controller at any time by tapping the controller bluetooth device name on the smartphone's bluetooth setting page when the controller is powered on.

3. Using the Included External RF Remote

The hand held remote (FF-JUN-HAND) and the wall switch type (FF-JUN-WALL) RF wireless remote control are included with the Juno™ Series LED controllers. These RF remote controls can be used to turn the LED controller on/off and switch between the saved brightness settings within the app. The RF remote controls need to be paired to the main unit before use with the following steps:

- **1.** Ensure the remote control function is enabled on the app setting page while the LED controller is paired to the smartphone.
- **2.** Power off the LED controller for more than 5 seconds and power on again.
- **3.** Within 5 seconds of LED controller powering on, press the on/off key and downward key together on the remote control.
- **4.** The indicator on the LED controller will flash white 3 times to show the remote control is recognized. A maximum of five remote controls can be paired to one LED controller and can be used at the same time.

depth of 100ft (30 meters). When installing under the water, make sure the cable connections are waterproof.

Note: The bluetooth connection and RF remote control sensitivity is decreased when the LED controller is installed in a wet environment or under water.

Specifications

Model	FF-JUN-APP-SC-COMBO			
PWM Grade	256 levels			
Connection Method	Bluetooth V2.1/4.0 Class 2			
Smartphone OS	iOS or Android			
Name of App	ColorEasy1 Plus			
PWM frequency	8000 Hz (8KHz)			
RF Remote	Yes			
RF Remote Frequency	433.92MHz			
Auto Circuit Protection	Overload/Overheat/ Short Circuit/Overcurrent			
Working Voltage	6-24VDC			
Bluetooth Control Distance	>10m in open area			

The preset brightness settings can be selected by pressing the up/down key on the remote control. These preset brightness settings can be customized within the smartphone app.

Other Features

Automatic Circuit Breakers

These controllers have full protection against output short circuits, overloads, and overheating. The indicator flashes red due to overload or electrical short circuit, and flashes yellow if overheating. The controller will automatically recover when the fault is corrected. Ensure the LED loads are within the rated voltage range, not shorted and protected against overheating.

Voltage Range

This controller can work on 6-24VDC. Be sure the input signal, power supply and LED load are all using the same voltage. The controller cannot work with different voltage input and output. Also, the wrong voltage may damage the LEDs. e.g. Do not use 12V LEDs with a 24V power supply.

Environmental Protection

This waterproof version is designed with the IP68 standard and can be used underwater up to a

Rated Output Current	Current 15A
IP Grade	IP68

QR Links to Download App











Flexfire LEDs, Inc. www.FlexfireLEDs.com 1-844-FLEXFIRE

Warranty Information

Limited Warranty:

This product has a 5 year limited warranty from the date of shipment. This warranty only includes the main product outlined in this specification sheet and does not include the additional accessories that are used as a reference. Complete warranty details for fixtures and additional accessories are available at https://www.flexfireleds.com/warranties/ within the Policies section. For warranty related questions please contact product support team at (support@flexfireleds.com).

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Not using a voltage regulated power supply to connect the LED product or controls; Connecting LED products to the wrong output voltage; Improper connection of power supplies, LED products, or controls: Connecting LED products or controls directly to any AC power source if they are stated for DC only input; Connecting power supplies backwards to an AC power source; Products used in an inappropriate location or in environmental conditions (temperature, humidity, moisture, etc.) outside the normal specified range; Water damage to products not specifically sold as waterproof products; Electrical power surges and spikes; Damage from hail, flooding, tornado, fire, wind, earthquake, lightning, electrical storm, or any other natural disasters or "force majeure" incidences; Damage caused by a vehicle or other accident; Damage caused when transporting the item; Damage to any products that were modified by the user, used for purposes other than as intended or directed, or connected to LED systems or components not purchased from Flexfire LEDs; Products that have been subjected to misuse, mishandling, misapplication or accident. Products used in connection with any components, devices or systems other than those explicitly approved as compatible with Company's products and listed on Company's website. Excessive wear and tear and/or physical or accidental abuse, loss, or theft. Improper repairs or warranty services performed by someone other than Flexfire LEDs will void this warranty.





















Features

- Constant Voltage + Constant Current mode output
- Metal housing with class I design
- IP67 / IP65 rating for indoor or outdoor installations
- · Function options: output adjustable via potentiometer; 3 in 1 dimming
- Typical lifetime > 62000 hours
- 7 years warranty

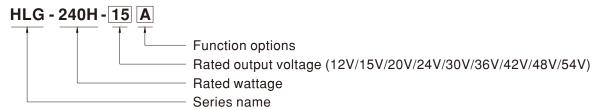
Applications

- · LED street lighting
- LED high-bay lighting
- · Parking space lighting
- · LED fishing lamp
- · LED greenhouse lighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

Description

HLG-240H series is a 240W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-240H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 93.5%, with the fanless design, the entire series is able to operate for $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$ case temperature under free air convection. The design of metal housing and IP67/IP65 ingress protection level allows this series to fit both indoor and outdoor applications. HLG-240H is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding



Type	IP Level	Function	Note
Blank	IP67	Io and Vo fixed	In Stock
Α	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
С		Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potentiometer.	By request
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request



240W Constant Voltage + Constant Current LED Driver

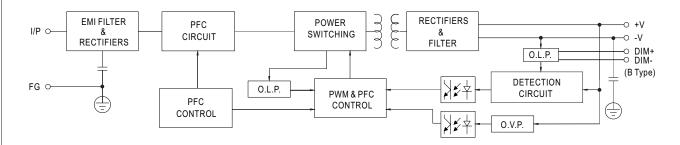
SPECIFICATION

MODEL		HLG-240H-12	HLG-240H-15	HLG-240H-20	HLG-240H-24	HLG-240H-30	HLG-240H-36	HLG-240H-42	HLG-240H-48	HLG-240H-54	
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
	CONSTANT CURRENT REGION Note.4		7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V	
	RATED CURRENT	16A	15A	12A	10A	8A	6.7A	5.72A	5A	4.45A	
	RATED POWER	192W	225W	240W	240W	240W	241.2W	240.24W	240W	240.3W	
	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p	
				only (via built						,	
	VOLTAGE ADJ. RANGE	11.2 ~ 12.8V		, ,	22.4 ~ 25.6V		33.5 ~ 38.5V	39 ~ 45V	44.8 ~ 51.2V	50 ~ 57V	
DUTPUT				only (via built							
	CURRENT ADJ. RANGE	8 ~ 16A	7.5 ~ 15A	6 ~ 12A	5 ~ 10A	4 ~ 8A	3.3 ~ 6.7A	2.86 ~ 5.72A	2.5 ~ 5A	2.23 ~ 4.4	
	VOLTAGE TOLERANCE Note.3	±2.5%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
		1000ms,80ms		500ms,80ms/2							
	HOLD UP TIME (Typ.)	15ms / 115VA									
	(-)	90 ~ 305VAC	127 ~ 431	1VDC							
	VOLTAGE RANGE Note.5			ARACTERISTI	IC" section)						
	FREQUENCY RANGE	47 ~ 63Hz									
	TREGOLITOTIANOL		V∆C PF>∩ Q	5/230VAC @ fu	ull load						
	POWER FACTOR (Typ.)			CTOR (PF) CH		C" section)					
		,		/ 115VAC,230\		,	C)				
INPUT	TOTAL HARMONIC DISTORTION		_	ARMONIC DIS			0)				
141 01	EFFICIENCY (Typ.)	90%	90%	91.5%	92.5%	92.5%	92.5%	92.5%	93%	93.5%	
	AC CURRENT (Typ.)	4A / 115VAC	2A / 230V		277VAC	32.370	32.370	32.370	3370	93.376	
	INRUSH CURRENT (Typ.)					230VΔC: Per NE	-ΜΔ 410				
	MAX. No. of PSUs on 16A	COLD START 75A(twidth=570μs measured at 50% Ipeak) at 230VAC; Per NEMA 410									
	CIRCUIT BREAKER	2 units (circuit breaker of type B) / 4 units (circuit breaker of type C) at 230VAC									
	LEAKAGE CURRENT	<0.75mA / 277VAC									
	OVER CURRENT	95 ~ 108%									
	OVERCOORRENT	Constant current limiting, recovers automatically after fault condition is removed									
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed									
PROTECTION	OVED VOLTACE	13.5 ~ 18V	17.5 ~ 21.5V	43 ~ 49V	48 ~ 54V	55 ~ 63V	60 ~ 67V				
	OVER VOLTAGE	Shut down and latch off o/p voltage, re-power on to recover									
	OVER TEMPERATURE	Shut down o/	p voltage, reco	overs automat	ically after ten	nperature goes	down				
	WORKING TEMP.	Tcase= -40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)									
	MAX. CASE TEMP.	Tcase=+90°C									
	WORKING HUMIDITY	20 ~ 95% RH non-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,	10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)									
	VIBRATION		<u> </u>	cle, period for 7	72min, each al	ong X. Y. Z axes	3				
	SAFETY STANDARDS	UL1012, CAN/CSA-C22.2 No. 107.1-01, UL8750(type"HL"), CSA C22.2 No. 250.0-08; EN/AS/NZS 61347-1,EN/AS/NZS 61347-2-13 independent (except for HLG-240H C type); UL60950-1(except for AB type), UL8750, TUV EN60950-1; GB19510.14 IP65 or IP67; J61347-2-13(except for B, AB and D-type), BIS IS15885(for 48V only), EAC TP TC 004, KC61347-1, KC61347-2-13(except for AB, C, D-type) approved									
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC									
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG; O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH									
	EMC EMISSION	Compliance to EN55015, EN55032 (CISPR32) Class B, EN61000-3-2 Class C (@ load ≥ 50%); EN61000-3-3, GB17743 and GB17625.1,EAC TP TC 020;KC KN15,KN61547(except for AB,C,D-type)									
	EMC IMMUNITY	Compliance to	EN61000-4-2		EN61547, EN5	5024, light indu			ne-Earth 4KV, L	ine-Line 2K	
	MTBF	729.2K hrs mi		SR-332 (Bello		. ,	-HDBK-217F (2	25°C)			
-	DIMENSION			HLG-240H-Bla	, .		(L*W*H)(HLG	,)		
THERS		<u>-</u> 00 00.0	(L VV II)(I	U _ TUI I-DIA			. (= vv ii)(iiLG		,		
OTHERS	PACKING	1.3Kg: 12nce/	16 6Ka/0 84CI	JFT(HLG-240-	Blank/A/R)		cs/15.8Kg/1.16				

- 3. Tolerance : includes set up tolerance, line regulation and load regulation.
- 4. Please refer to "DRIVING METHODS OF LED MODULE".
- 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
- 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. The driver 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 manufacturers must re-qualify EMC Directive on the complete installation again.
- 8. 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.
- 9. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (\overline{c}) point (or TMP, per DLC), is about 75 $^{\circ}$ C or less.
- 10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.
- 11. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- 12. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf

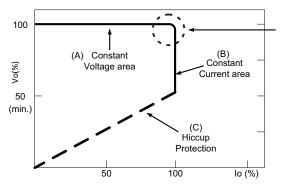
■ BLOCK DIAGRAM

Fosc: 100KHz



■ DRIVING METHODS OF LED MODULE

X This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



Typical output current normalized by rated current (%)

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

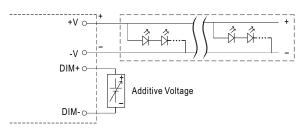


■ DIMMING OPERATION



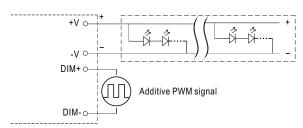
imes 3 in 1 dimming function (for B/AB-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
 1 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100µA (typ.)
- O Applying additive 1 ~ 10VDC



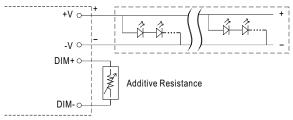
"DO NOT connect "DIM- to -V"

O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

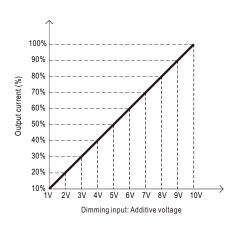


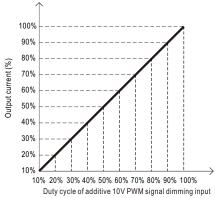
"DO NOT connect "DIM- to -V"

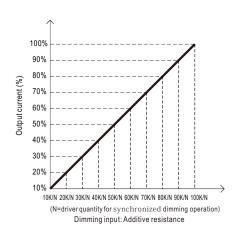
Applying additive resistance:



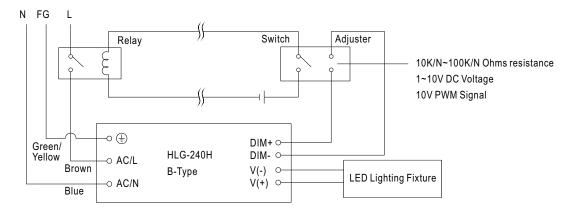
"DO NOT connect "DIM- to -V"







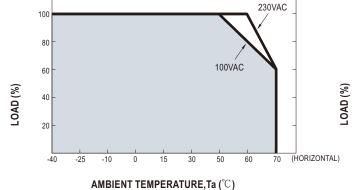
Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.

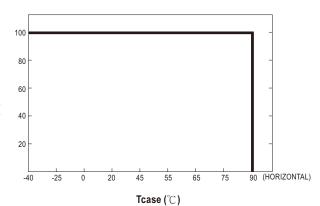


Using a switch and relay can turn ON/OFF the lighting fixture.

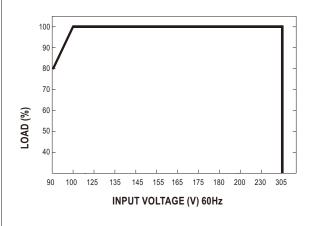






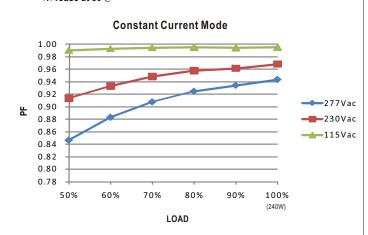


■ STATIC CHARACTERISTICS



■ POWER FACTOR(PF) CHARACTERISTIC

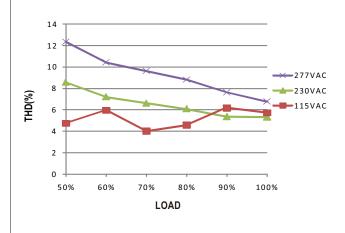
★ Tcase at 80°C



X De-rating is needed under low input voltage.

■ TOTAL HARMONIC DISTORTION (THD)

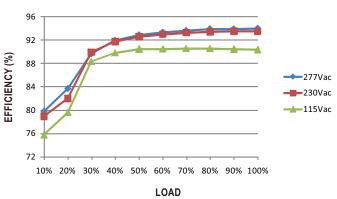
¾ 48V Model, Tcase at 80°C



■ EFFICIENCY vs LOAD

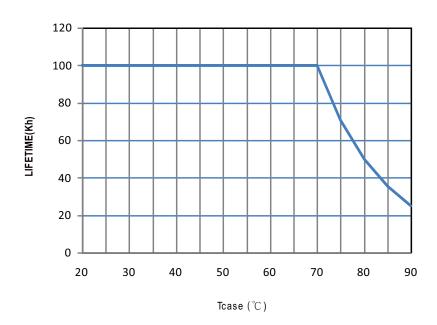
HLG-240H series possess superior working efficiency that up to 93.5% can be reached in field applications.

¾ 48V Model, Tcase at 80°C

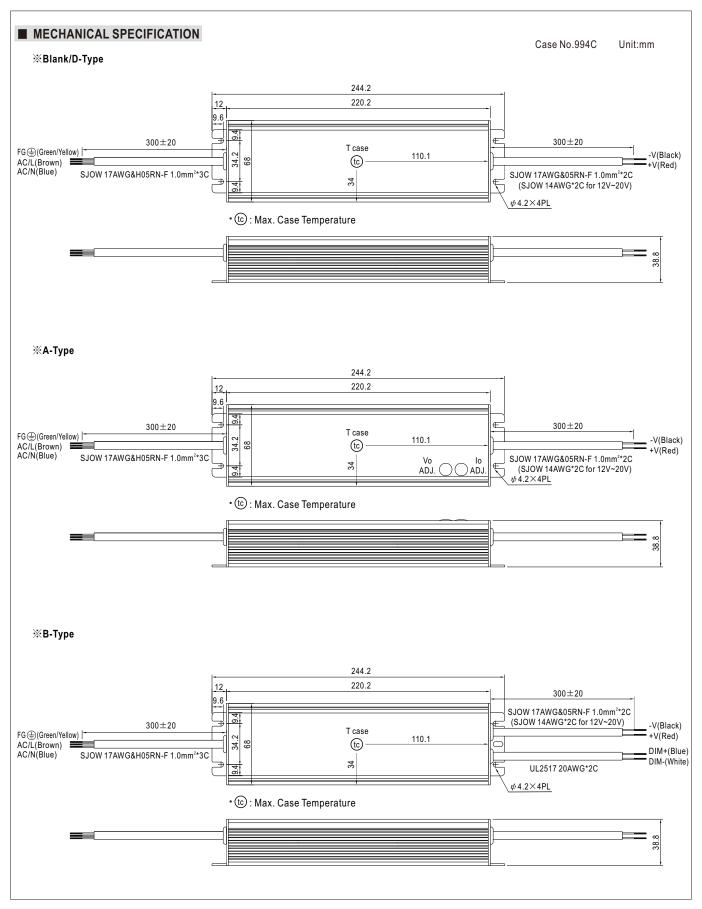




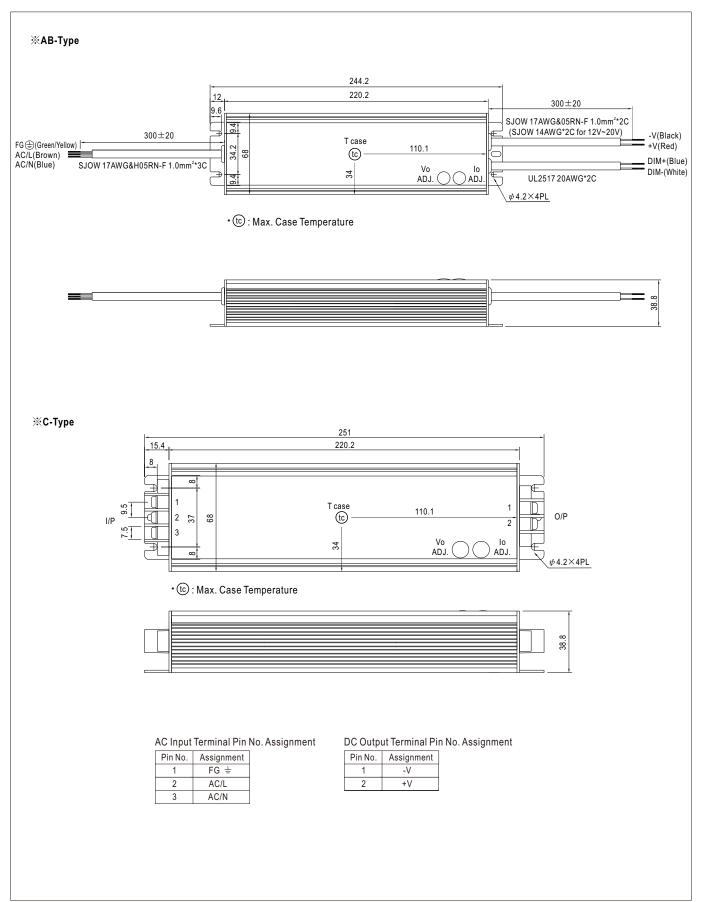
■ LIFE TIME









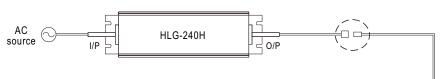




■ WATERPROOF CONNECTION

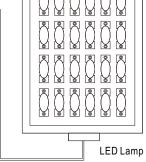
Waterproof connector

 $Waterproof connector \ can be \ assembled \ on \ the \ output \ cable \ of \ HLG-240H \ to \ operate \ in \ dry/wet/damp \ or \ outdoor \ environment.$

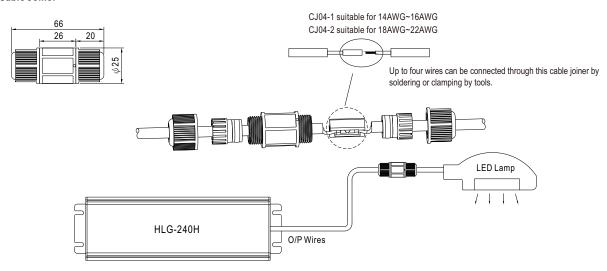


Size	Pin Configuration (Female			
M12	000	000		
IVITZ	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

Size	Pin Configuration (Female)		
M15	00		
IVITO	2-PIN		
	12A/PIN		
Order No.	M15-02		
Suitable Current	12A max.		

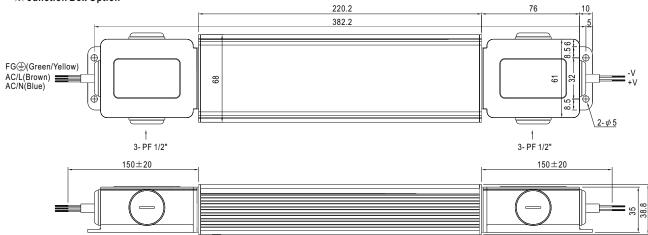


※ Cable Joiner



© CJ04 cable joiner can be purchased independently for user's own assembly. MEAN WELL order No.: CJ04-1, CJ04-2.

% Junction Box Option



■ INSTALLATION MANUAL

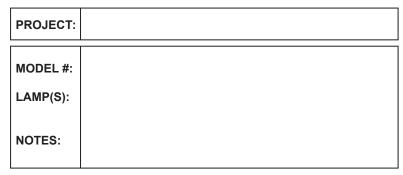
Please refer to : http://www.meanwell.com/manual.html

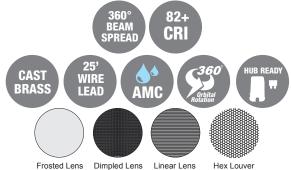


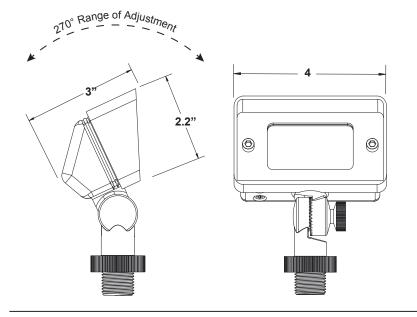




PRODUCT SPECIFICATIONS







Specifications:

- Solid cast brass construction
- · Machined brass thumb screw
- · Silicone gasket seal
- · Specification grade, beryllium copper socket
- · Premium grade direct burial cable
- AMC Anti-Moisture Connections
- 2W max. LED lamp / 20W max. halogen
- Slotted composite stake with brass threaded insert included
- · Weathered brass finish standard
- · Limited lifetime warranty

Light Distribution Cones: N/A

NOTE: Light cones are depicted without supplied lenses. Maximum wattage shown, for all other wattage options please refer to **uniquelighting.com/beamspreads**.







Fixtures

Part Number Description STEL-12-L1 STELLAR BR 12V LED 1W 30K 25'WL WB STEL-12-L2 STELLAR BR 12V LED 2W 30K 25'WL WB STEL-12-L27 STELLAR BR 12V LED 2W 27K 25'WL WB STEL-NL STELLAR BR NL 25'WL WB STEL-NL-0 STELLAR BR NL NWL WB STEL-NL-50 STELLAR BR NL 50'WL WB STEL-NL-P STELLAR BR NL 25'WL PNT STEL-12-20 STELLAR BR 12V 20W 25'WL WB

Accessories

Part Number

SPHEREBASE SB ZEROG-WB 6RISER 12RISER 24RISER 12ADJRISER 24ADJRISER **Description**

Round Mounting Base Docking Post W/Brass Cap 6" Brass Riser 12" Brass Riser 24" Brass Riser 12" Adjustable Brass Riser WB 24" Adjustable Brass Riser WB **Finishes**

Standard Finish

WB - Weathered Brass

Powder Coated Finishes

WH - White BK - Black

VG - Verde Green TT - Tucson Tan TK - Titanium Knight

Custom Colors

P - Painted

Stock powder coated colors displayed are subject to varying lead-times and will incur an additional cost. A Limited Warranty applies to all powder coated products.

Custom colors are available upon request. Please inquire about cost and lead times. Contact factory for custom colors and matching paint options.