

# POWER AXIS™ LED LIGHT ENGINE

**P**ower Axis LED light engines are designed for use in illuminated advertising display boxes, menu boards and many other applications. Power Axis can be installed in new or retrofit display box applications as an alternative to fluorescent and neon lighting. High-output, power LEDs are mounted on an aluminium IMS strip that mounts easily and securely in many lighting applications.

## **Product Summary**

Power Axis LED light engines not only reduce energy usage, they also have a rated life of up to 75,000 hours to significantly reduce maintenance costs. At up to 1,000 lumens per strip, Power Axis light engines provide illumination comparable to fluorescents at a substantial life cycle cost savings.

Their cool white light exceeds most fluorescent light color temperatures for brighter colors in all edgelit and backlit graphics and menu boards. Plus, the Power Axis LED light engine operates on 12VDC for ease of integration into many enclosed, lighted display applications.

These versatile LED light engines are ROHS compliant and mercury free to provide an environmentally friendly alternative to fluorescent and neon lighting. In addition, Power Axis LED light engines are easily adaptable to solar power setups.

## **HIGH IMPACT, COOL WHITE LED LIGHT ENGINE FOR NEW OR RETROFIT ENCLOSED, LIGHTED APPLICATIONS**

### **KEY FEATURES:**

- *Provides up to 1,000 lumens per strip*
- *Environmentally friendly and energy efficient alternative to fluorescent and neon*
- *12VDC powered system operation*
- *Rated life of up to 75,000 hours*
- *Can be daisy chained*
- *22.375" and 13.5" strip lengths*

### **IDEAL FOR USE IN THESE ENVIRONMENTS:**

- *New or retrofit lighted advertising display boxes*
- *Light boxes, menu boards, & exhibit displays*
- *Specialty applications including kiosk, monument & general acrylic backlighting*

### **FEATURES & BENEFITS**

- *Environmentally friendly lighting that does not contain mercury and is ROHS compliant*
- *Designed for edge lighting installation to eliminate hot spots behind graphics as well as backlighting*
- *High lumens output for brightness comparable to fluorescent*
- *Long life LEDs last up to 75,000 hours to significantly reduce maintenance*
- *Low power consumption reduces energy costs*
- *Easy mounting for installation or retrofit*



**UL**  
E256424



**ColorGlo™**

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# POWER AXIS™ LED LIGHTING ENGINE

## SPECIFICATIONS: POWER AXIS LED LIGHTING ENGINE

	LLS-PA-22 Series	LLS-PA-13 Series
Number of LEDs per Module:	15 (1 Watt)	9 (1 Watt)
Optic Angle:	100° and 120°	100° and 120°
Input Voltage:	12 VDC	12 VDC
Input Current:	1.5A ±5%	.9A ±5%
Wattage:	18W per Light Strip	10.8W per Light Strip
LED Type:	InGaN	InGaN
Color:	6000°K (100°), 6500°K (120°)	6000°K (100°), 6500°K (120°)
Lumens:	≥ 1,000 Lumens	≥ 600 Lumens
PCB Material:	Aluminum Substrate	Aluminum Substrate
Module Dimensions:	22.375" (568mm) L x 1.75" (44mm) W x .30" (8mm) H	13.50" (343mm) L x 1.75" (44mm) W x .30" (8mm) H
Mounting*:	(4) .175" Holes on Strip	(3) .175" Holes on Strip
Power Connectors:	Tyco Poke In SMT	Tyco Poke In SMT
Environmental:	-40° to 122° F** (-40° to 50° C) Conformal Coated	-40° to 122° F** (-40° to 50° C) Conformal Coated
Listings:	UL Recognized, E256424	UL Recognized, E256424

\* Light strip is sold with one plastic washer provided per mounting hole. For signage installations, the plastic washers must be placed between the Power Axis LED strip and mounting surface.  
 \*\* 0-95% Humidity

## SPECIFICATIONS - TRANSFORMERS:

2240 SERIES PART #	AXIS CAPACITY		INPUT	OUTPUT	CIRCUITS
	22"	13"			
C2240-DCR	12	20	120VDC	12VDC/240Watts	4 x 60Watts
C2240-DCR-240	12	20	240VDC	12VDC/240Watts	4 x 60Watts

  

20 SERIES PART #	AXIS CAPACITY		INPUT	OUTPUT	CIRCUITS
	22"	13"			
20-3301	1	1	90-264VAC	12VDC/20Watts	1 x 20Watts
20-3345	1	2	90-264VAC	12VDC/25Watts	1 x 25Watts
20-3305	2	3	90-264VAC	12VDC/40Watts	1 x 40Watts
20-3131	3	5	90-264VAC	12VDC/60Watts	1 x 60Watts

## LED ADVANTAGES

- Low voltage increases safety and eliminates arcing hazard
- Lasts up 75,000 hours to reduce maintenance costs
- Operates reliably in cold climates to eliminate flicker and startup problems common with fluorescent lighting
- Consumes significantly less power than fluorescent to reduce operating costs
- Durable and shock resistant, no glass or filament components to break
- Provides a brighter, white light output compared to fluorescent

## BUILDING A PART NUMBER

LLS - PA - [Strip Length] - [Optic Angle]  
 13                      100  
 22                      120

**Example:** LLS-PA-22-100  
 Power Axis, 22.375" strip, 100° optic angle

## ACCESSORIES:

Power Cables	Part #
2.5" Poke In Connector Wire (1 ea.)	CA-PC-2.5
4" Poke In Connector Wire (1 ea.)	CA-PC-4
8" Poke In Connector Wire (1 ea.)	CA-PC-8
24" Poke In Connector Wire (1 ea.)	CA-PC-24
48" Poke In Connector Wire (1 ea.)	CA-PC-48

**Note:** Each Poke In connector requires two wire connections.

**For pricing and additional information, consult your ColorGlo Sales Representative or Authorized Dealer (for rep/dealer contact information, call J&J Electronics at 800.735.4553)**

