

Metrolight LED Light Engine Kit

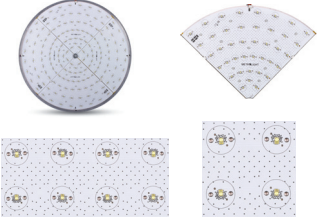
LED Drivers 50W - 600W



50W-150W
100W-450W
575W-600W

Fully programmable smart universal drivers with leading price / performance

LED Arrays & Modules



Efficient and flexible design

Full Digital Control



Wired and wireless control to optimize savings

Metrolight introduces an all-in-one LED solution for immediate implementation by OEMs, enabling effective integration that minimizes time to market. Based on proven technology, our LED Light Engine Kit is a fully integrated module including everything required to produce efficient, first class light: driver, LED arrays, control, and full support in thermal, optic and fixture design.

Main Features of LED Light Engine

- 50W-600W fully programmable LED driver
- High efficiency DLC certified LEDs
- Stable wide dimming range 100% - 10%
- Optimized heat dissipation
- Flexible, programmable power and current control
- Extended LED life > 60,000 hrs.
- Selection of photometrics and color temperature
- eHID to LED technology

Key Benefits

- Leading cost/performance
- Short time to market
- Based on field proven Metrolight Smart Technology
- Smart integration of components to system level
- Thermal protection & failure management
- High efficiency via high frequency, high voltage technology
- Full digital control (wired & wireless)
- integration knowledge & full support

Design Examples

High Bay up to 400W



Outdoor up to 600W



Recessed up to 150W



General Specifications

Frequency	50/60Hz
Inrush current	<25A
Programmable input voltage/power range	50W – 600W
Harmonics (at nominal conditions)	Fully complies with EN61000-3-2
Total Harmonic Distortion	<10% at 120V, <10% at 208V, <15% at 277V.
Input current protection	Fuse (Internal)
Continuous full range dimming	<ul style="list-style-type: none"> • 100% - 10% of full power, minimum 40W • Analog dimming current draw 1.5mA per luminaire. Maximum number of fixtures = sensor current / 1.5mA
Dimming options	<ul style="list-style-type: none"> • 0-10V Analog dimming by relay, ambient sensor, daylight sensor or any other compatible sensor • Bi level dimming by relay or dry contact closure • Digital dimming - with individual light point control and real-time feedback
Lumen maintenance L70	>60,000 hours
Operating temperature range	-30°C to +65°C / -22°F to 149°F
Operating humidity	0 to 95% RH non-condensing
Current and power control	Adaptability of current to LED topology
Control	1-10V Analog, Digital wired and wireless and auto-dimming profile
Input and output protection	Voltage, surge, short circuit
Other	Thermal management and high reliability

Input Specifications*

400W LED Power	
Input Power	426W / 94% efficient
Input Voltage	200 - 277VAC (+10% to -15%)
Input Current	2.1A @ 208V, 1.98A @ 220V, 1.83A @ 240V, 1.58A @ 277V
Power Factor (at nominal conditions)	>0.96

250W LED Power	
Input Power	269W / 93% efficient
Input Voltage	120 - 277VAC (+10% to -15%)
Input Current	2.3A @ 120V, 1.26A @ 220V, 1.16A @ 240V, 1.0A @ 277V
Power Factor (at nominal conditions)	>0.95

150W LED Power	
Input Power	165W / 91% efficient
Input Voltage	120 - 277VAC (+10% to -15%)
Input Current	1.4A @ 120V, 0.76A @ 220V, 0.7A @ 240V, 0.6A @ 277V
Power Factor (at nominal conditions)	>0.92

*additional wattages available upon request

About Metrolight

Metrolight provides proven energy-efficient eHID and LED solutions for high-power lighting. Metrolight's ballasts, drivers and managed lighting solutions are used in retail, industrial, commercial and municipal installations to reduce energy consumption and carbon emission by 70%. Pioneering lighting energy solutions since 1996, Metrolight operates worldwide with over 800,000 systems deployed and over 8 billion hours in operation. For more information, please visit our website at: www.metrolight.com

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