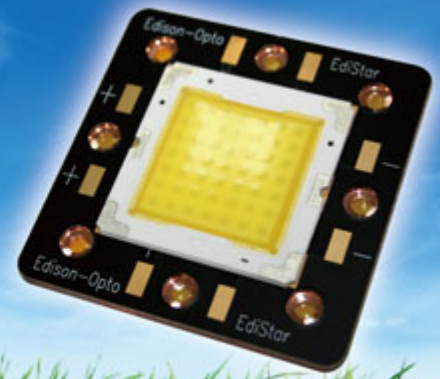




3,000lm@2400mA



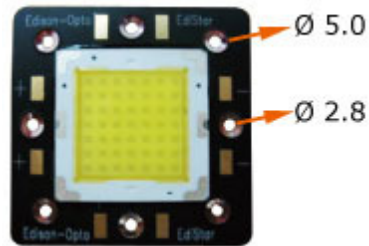
EdiStar 50W

Edison Opto, the leading high power LED manufacturer, is proud to present one of the brightest ultra high power LED – 50Watt EdiStar. Incorporated with Edison Opto’s most advanced packaging technologies and materials, EdiStar exhibits luminous flux output up to 3000lm, making it highly capable of a wide variety of lighting applications where the high flux output is critical. Measured in 30.15x30.15x1.1 mm, EdiStar remains small and slim in size for superior design flexibility. The integrated copper pad ensures optimal thermal conductivity while providing easy installation option with the built-in screw openings.

Features:

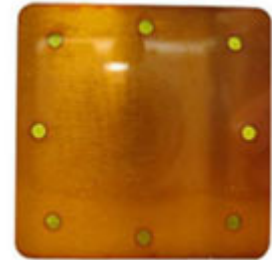
- Advanced Packaging Technologies And Materials
- Unprecedented Luminous Flux Output
- Small And Slim in Size
- Easy Installation Design
- No UV or IR Emission
- Fully Compliant to RoHS
- Ideal for High Profile Lighting Applications

Copper Pad Information



The EdiStar is integrated with the copper pad by solder for superior thermal conductivity.

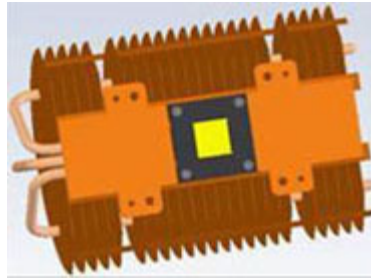
Remark: 8 screw openings for easy orientation and installation



A thin film to avoid oxidation is applied over the bottom of the copper pad.

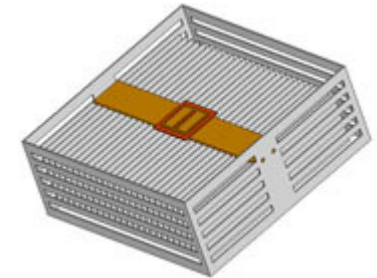
Caution: Remove this thin film before using the EdiStar.

Recommended Thermal Solution:



Dimension: 170x130x100 mm
Surface Area: 4800cm²

	Tmax	Tavg
Slug	68	65
Base	64	62
Fin	60	50



Dimension: 150x150x60 mm
Surface Area: 2800cm²

	Tmax	Tavg
Slug	89.7	84.5
Base	88.1	73.8
Fin	84.8	66.0

Note: Copper plate, heat pipe, and fin construction are recommended for the thermal module for superior heat dissipation capabilities.

Recommended Power Solution:



LP1090 series

DC Output Forward Voltage: 18~36V
 Output Current Adjust Range: 1.5~2.66A (constant current)
 HIGH PERFECTION TECH

AC Input Range: 100~240/100~277 Vac/1.5A~0.75A/47~63Hz	Load Regulation: ±5%
Input Inrush Current: <20A/115Vac, <40A/230Vac	Operation Temp: -30°C ~+50°C, Tc: 90°C
Leakage Current: <0.4mA/115Vac, <0.75mA/230Vac	Storage Temp.: -40°C ~+85°C
Power Factor: >0.92 at full load, 115Vac, 230Vac	MTBF(@25°C): >100,000 Hours, MIL-217F
Current Crest Factor(Ipk): 1.5 Max.	Safety: UL1310, UL48 Class 2, CUL, CE, FCC B
Total Harmonic Distortion: 20% Max.	Compliance: EN55022 B, EN55011 B, Class B
Efficiency: 85% Typical	IP66-IEC60529, FCC Part 15, Subpart b, Class B
Protection: OCP, SCP, OVP – Auto Recovery	Weight: 750g(290mm), 600g(170mm) Typical