

400W SMD High Bay Light Cold Forged Heatsink



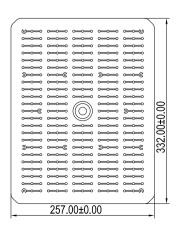


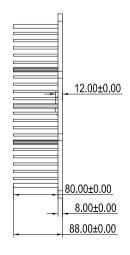


Features:

- **Fish-Scale Fin Design** Bio-inspired fish-scale and shark-fin 3D structure increases surface area, generates micro-vortices, and significantly enhances convective heat transfer.
- **Flexible Installation** Maintains high efficiency even at non-vertical angles, giving greater flexibility in lighting fixture design.
- Superior Thermal Conductivity AL1070 cold-forged heatsinks (≥99.7% pure aluminum, up to 240 W/m·K) outperform extrusion and die-casting, delivering outstanding heat dissipation for high-power LED lighting.
- **Longer LED Lifespan** Faster PCB temperature stabilization (20–25 minutes) reduces heat buildup, prevents light decay, and prolong product lifetime.
- Compact & Lightweight High thermal efficiency enables smaller, lighter designs that lower production and shipping costs.
- Advanced Surface Protection Electrophoretic (e-coating) finish ensures exceptional corrosion resistance in harsh environments, superior to plating, powder coating, or anodizing.
- **Versatile Applications** Perfect for grow lights, high/low bay lights, flood lights, and other LED systems.

400W Heat Sink Dimensions:

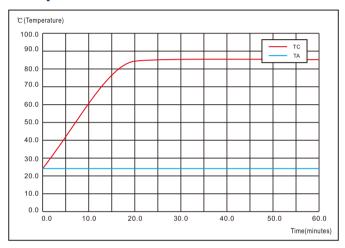


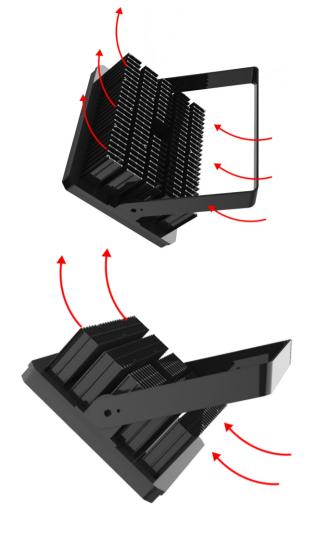


(Unit: mm)

With its innovative fish-scale fin design for superior cooling and unique tilt-mounting capability, this heatsink delivers unmatched flexibility, reliability, and design freedom beyond traditional vertical setups.

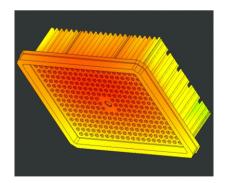
Temperature Rise Curve:

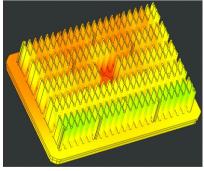


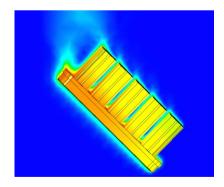


Heat Dissipation Simulation:

Simulation under SMD Chip with Rotation 45° (with sealed glass cover and 25°C ambient temperature) Power = 400W Ta = 25 Tpcb = 85.5°C \triangle T = 60.5°C Rpcb-a = 0.151°C/W







Model Number	LED Power (W)	Ambient Temperature Ta (°C)	Heat Sink Temperature Tpcb (°C)	Temperature Rise △T (°C)	Thermal resistance Rpcb-a (°C/W)	Angle of LED Simulator
DG332-400-A01	400	25	85.5	60.5	0.151	90°

Product Information:

Model Number: DG332-400-A01 Dimension (mm): 332*257*88 Cooling Surface(mm²): 913,966.6

Cooling Performance (Im): 36,000~48,000 Thermal Resistance(°C/W): 0.12~0.22 Dissipated Power (W): 300W~400W

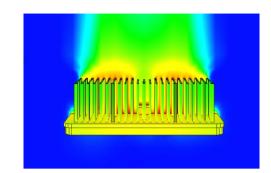
Weight: 3.8 kgs/8.38 lbs Material: AL1070 Aluminum

Surface treatment options: Anodized Black or clear;

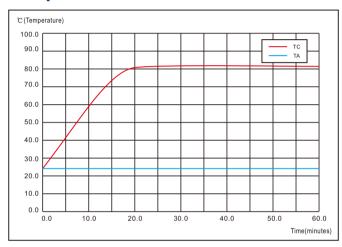
Electrophoresis Black

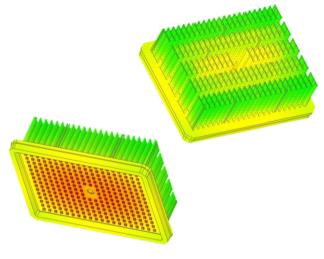
Heat Dissipation Simulation:

Simulation under SMD Chip with Sealed Glass Cover Power = 400W Ta = 25 Tpcb = 81° C \triangle T = 56° C Rpcb-a = 0.2° C/W



Temperature Rise Curve:





Model Number	LED Power (W)	Ambient Temperature Ta (°C)	Heat Sink Temperature Tpcb (°C)	Temperature Rise △T (°C)	Thermal resistance Rpcb-a (°C/W)	Angle of LED Simulator
DG332-400-A01	400	25	81	56	0.20	90°

Applications:

A great variety of applications in Grow Light, High/Low Bay Light, Flood Light and more.







