

100W SMD LED Grow Light Heat Sink Assembly (HG-003 Series)

Much Faster Heat Dissipation Speed to Avoid Light Decay Risk

Much Less Time (about 20 ~ 25 min) for PCB Temperature (Tpcb) to reach Constant PCB Temperature level.

Best 100W SMD LED Grow Light Fixture with Best Thermal Performance

This 100W SMD LED Lighting Fixture with Cold-Forged Heat Sink Outperforms Others in its 100W Class Thermal Performance for Much Better Lighting Output Quality & Longer Life Time.

Advanced Nano-Coating Reflector For More Uniform Light Reflection and Cost-Saving; Replacement For Two Pieces Reflector & Lampshade

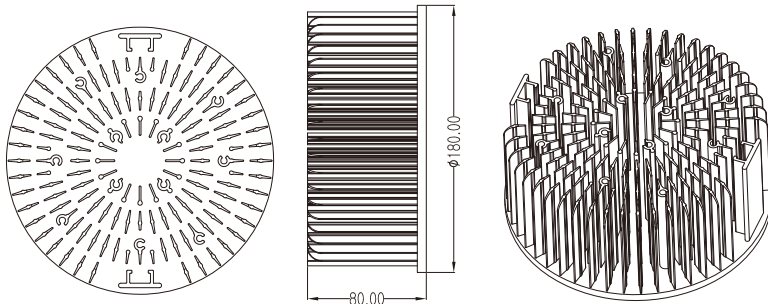
Most Advanced Cold-Forging Heat Sink Production Techniques

Cold-Forged Heat Sinks Better Thermal Performance than Extrusion and Die-Casting Allows Fins Height Reduction, Down Size, and Lighter Weight.

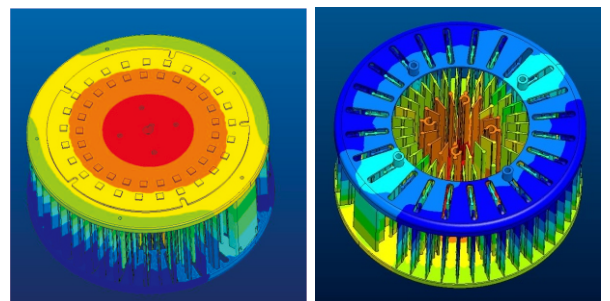


Tpcb=68°C @ Ta=25°C

Dimension



Heat Dissipation Simulation



Simulation under SMT Chip Model#5050

HG-003 (unit: mm)

Product Features



Most Advanced Cold-Forging Heat Sink Production Techniques

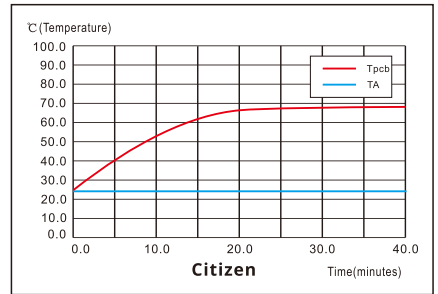
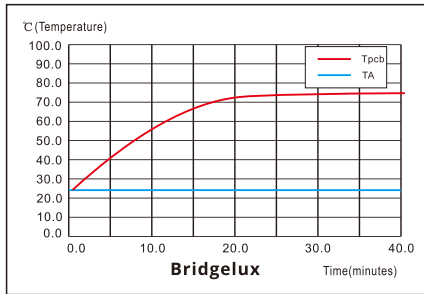
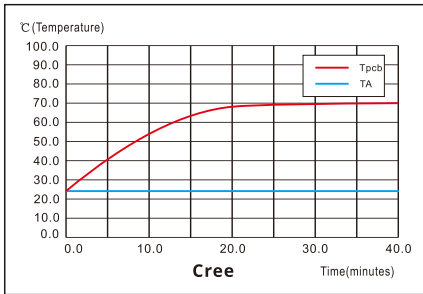
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Lampshade Respirator Design

The lampshade respirator design, though water-proof, allows air-exchange to avoid any foggy condition that humidity will affect light quality.

Temperature Rise Curve



SMD	LED Power (W)	Ambient Temperature Ta (°C)	PCB Temperature Tpcb (°C)	Temperature Rise ΔT (°C)	Thermal resistance Rpcb-a (°C/W)	Angle of LED Simulator
Cree	100	25	70.0	45.0	0.69	90°
Bridgelux	100	25	73.5	48.5	0.69	90°
Citizen	100	25	68.0	43.0	0.72	90°

Application

A great variety of applications in Grow Light, Vertical Farming and Green House Farming, etc.

