

IceLED Modular Active Star LED Cooler ø99mm

Features & Benefits

- For spot and downlight designs from 8,200 to 21,000 lumen
- Thermal resistance range Rth 0.46 - 0.58°C/W
- Modular design with mounting holes foreseen for a wide range of LED modules and COB's:

- All Zhaga Book 3 LED engines and holders
- Bridgelux Gen7 V Series V22
- Citizen Citiled CLU048/04J, CLU058
- Cree XLamp CMT19/28, CMA25/30
- Edison Opto EdiPower III HM30/40, Edilex SLM modules
- LG Innotek LEMWM18 17W/24W, LEMWM28
- Lumileds Luxeon Gen4 1216-1812, 1321-1825
- Luminus Gen4 CXM-18/22/32, CIM-22, CLM-22, CGM-22, Gen3 CXM-22(AC)/32(AC)
- Nichia NVCWL024Z, NVEWJ048Z
- Prolight Opto PABA, PABB, PACF, PACG, PACD
- Seoul Semiconductor Acrich MJT 28x28mm, 38x38mm, ZC100
- Tridonic TALEXX module SLE Gen3 19/23/Mini LES-17, Gen4 19/23mm, Gen5 15/23mm
- Vossloh Schwabe Luga Shop WU-M-484/485/486/461/462/464, Gen6 DMS128/158, DMC18C

- Diameter 99mm - Standard height 45mm & 55mm
Other heights on request

- Anti-vibration low-noise fan <21dB@1m
- High lifetime design >60Khrs (L 10 life time @40°C)
- Warranty 5 years

Zhaga
Book 3



Order Information

LED Holders

**BENDER
+WIRTH**

BJB

IDEAL

TE
connectivity

LED Brands

bridgelux

CITIZEN
Micro HumanTech

CREE

EDISON

LG Innotek

Lit by
LUMILEDS

LUMINUS

NICHIA

ProLight Opto
Technology Corporation

SEOUL SEMICONDUCTOR

TRIDONIC

VS LIGHTING SOLUTIONS

Example : IceLED 450

IceLED 1

- 1 Height (mm)
Overall height top to bottom
(Fan height 25mm)
IceLED 450 - 45mm
IceLED 550 - 55mm

IceLED is designed in this way that you can mount LED modules from various manufacturers on the same LED cooler
Simple mounting with M3 x 6mm self tapping screws
Recommended screw force 6lb/in
Screws are available from MechaTronix

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Product Details

Model n°	IceLED 450	IceLED 550
Dimension (mm) ^{*1}	ø99 x h45	ø99 x h55
Fan Voltage (Vdc) ^{*2}	12	12
Fan Speed (RPM)	1500	1500
Noise @ 1m (dBA)	<21	<21
Weight (gr)	223	249
Thermal Resistance (°C/W) ^{*3}	0.58	0.46
Power Pd (W) ^{*4}	85.5	109
Heat Sink Material	AL6063-T5	AL6063-T5

*1 3D files are available in ParaSolid, STP and IGS on request

*2 The fan requires a constant voltage power source of 12Vdc, 50mA

*3 The thermal resistance Rth is determined with a calibrated heat source of 30mm x 30mm central placed on the heat sink, Tamb 40° and an open environment. Reference data @ heat sink to ambient temperature rise Ths-amb 50°C
The thermal resistance of a LED cooler is not a fix value and will vary with the applied dissipated power Pd

*4 Dissipated power Pd. Reference data @ heat sink to ambient temperature rise Ths-amb 50°C
The maximal dissipated power needs to be verified in function of required case temperature Tc or junction temperature Tj and related to the estimated ambient temperature where the light fixture will be placed
Please be aware the dissipated power Pd is not the same as the electrical power Pe of a LED module

To calculate the dissipated power please use the following formula: $Pd = Pe \times (1 - \eta_L)$

Pd - Dissipated power

Pe - Electrical power

η_L = Light efficiency of the LED module

Notes:

- MechaTronix reserves the right to change products or specifications without prior notice.
- Mentioned models are an extraction of full product range.
- For specific mechanical adaptations please contact MechaTronix.