

Features VS Benefits

- * Mechanical compatibility with direct mounting of the LED modules to the LED cooler and thermal performance matching the lumen packages.
- * Thermal resistance range Rth(1.38°C/W).
- * Modular design with mounting holes foreseen for direct mounting of a wide range of LED modules and COB's:
- * Diameter 38mm Standard height 65.0mm , Other heights on request.
- * Extruded from highly conductive aluminum.
- 2 standard colors clear anodised black anodised

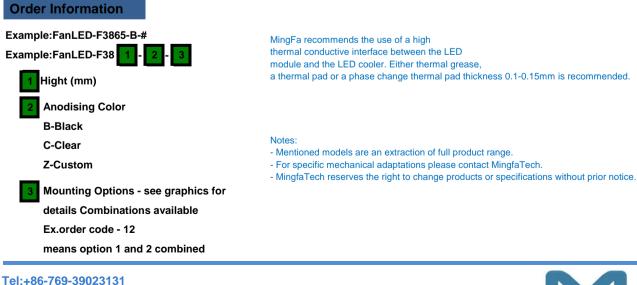
Zhaga Book 3 Spot Light Modules Edison ,Xicato ,Bridgelux , Osram ,Citizen ,Lumileds ,Cree ,

Tridonic , Vossloh-Schwabe ,Seoul ,LG ,Lustrous ,Prolight ,Samung ,SHARP , Luminus .Philips



1) Xicato XSM, XIM, XTM;

- 2) Bridgelux ESS, ESR, Vero 10, Vero 13, Vero 18 V-series;
- 3) Citizen CLL024-CLU028, CLL034-CLU038;
- 4) Cree XLamp CXA13xx, CXA15xx, CSA18xx;
- 5) Lumileds Luxeon COB's 1203, 1204, 1205, Luxeon K arrays K12, K16;
- 6) Osram PrevaLED Core, SOLERIQ P and SOLERIQ S LED engines.
- 7) Seoul Semiconductor ZC6, ZC12, ZC18, ZC25;
- 8) Tridonic TALEXXmodule SLE modules;
- 9) LG Innotek LEMWM18 10W, 13W, 17W
- 10) Edison EdiLex SLM and EdiLex II COB LED engines.
- 11) Lustrous LUSTRON 6 series LL604F, LL608D, LL613F, LL620F
- 12) Prolight Opto PABS, PABA, PACB, PANA
- 13) Samung LC013,LC019,LC026 COB LED engines.
- 14) SHARP Mini Zenigata Intermo and Mega Zenigata LED engines.
- 15) Philips Fortimo SLM LED engines.
- 16) Vossloh-Schwabe LUGA Shop LED engines.
- 17) Luminus C##9,C##14 LED engines.



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ActiLED-F3865 Series Active Heat Sinks Ø85mm for COB Modular Product Brief

The product deta table



Brand		Mingfa Tech	
Series Name	ActiLED Active heat sink		
Seriest Number	ActiLED-F3865		
Manufacturing Technology	Aluminum extrusion		
Material	AL6063-T5		
Color & Finishing	Black Anodized		
Certification	CE, ROHS, WEEE		
Fan date	Size:25x25x12mm;	Electric power:0.48W;	Speed:2900RPM ;
Diameter(mm)	Ф38		
Heat sink Height(mm)	50.0mm		
Max. Lumen	3000 lm		
Dissipated Power (Ths-amb,50°C)	20.5 W		
Thermal Resistance Rth (°C/W)	1.38°C/W		
Cooling Surface Area (mm²)	28449.0 mm ²		
Net Weight (g)	68.9g		
Quantity(pcs/CTN)	108 pcs		
Modular Types	СОВ		
For Environments	Indoor area		
For Lightings	Down lights, Architectural lights		
For Application	Retail & Hospitality,Mall & Museums,Office		
For LED brands	Bridgelux,BJB,Citizen,Cree,Edison,GE,LG,Lumileds,Lumens,Luminus,Ledil,Nichia,Osram, Philips,Prolight Opto,Samsung,Seoul,Sharp,Tridonic,VossIoh Schwabe,Xicato,Zhaga		

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

* The thermal resistance Rth is determined with a calibrated heat source of 14mm×14mm 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

* 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: $Pd = Pe x (1-\eta L)$

Pd - Dissipated power

Pe - Electrical power

 η L = Light effciency of the LED module

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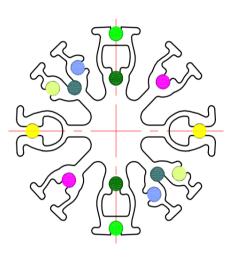




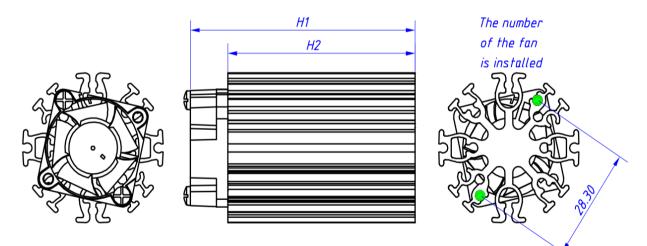
ActiLED ActiLED-F3865 Series Ø38mm COB Active Heat Sink Drawings

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Drawings & Type Selection



No.	Finish	Mounting hole
A1		19.0mm;2xM3@180°
A2		22.0mm;2xM3@180°
A3	•	25.0mm;2xM3@180°
A 4		26.9mm;2xM3@180°
A5		28.3mm;2xM3@180°
A6	•	31.4mm;2xM3@180°
A7	•	35.0mm;2xM3@180°



Product display









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The thermal data table

Pd(W)

Dissipated Power

Heat sink to ambient temperature rise Ths-amb(°C) ta=25°C Heat sink to ambient Heat sink to ambient thermal resistance temperature rise Pd = Pe x Rhs-amb (°C/W) Ths-amb (°C) 70 (1-ŋL) Heat sink rise above ambient(°C) ActiLED-3865 60 4 5.1 21.5 50 40 8 2.75 23.7 30 12 2.02 26.6 16 1.65 29.5 20 20 1.38 31.7 10 6 12 18 24 30 **Dissipated Power Pd(W)** — СОВ ТС

* Please be aware the dissipated power Pd is not the same as the electrical power Pe of a LED module.

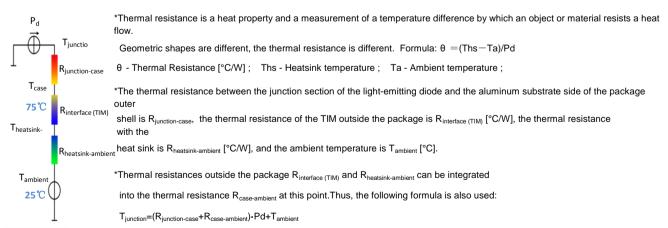
*To calculate the dissipated power please use the following formula: $Pd = Pe x (1-\eta L)$.

Pd - Dissipated power ; Pe - Electrical power ; ηL = Light effciency of the LED module;

*The aluminum substrate side of the package outer shell is thermally connected to the heat sink via TIM (Thermal interface material).

MingFa recommends the use of a high thermal conductive interface between the LED module and the LED cooler.

Either thermal grease, A thermal pad or a phase change thermal pad thickness 0.1-0.15mm is recommended.



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Heat sink TC