



for

LED

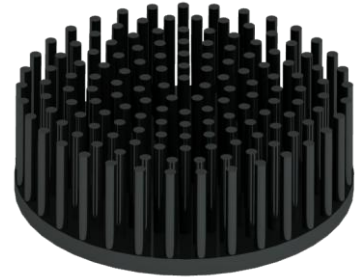


GooLED

GooLED-VOS-8630 Pin Fin LED Heat Sink Φ 86.5mm for Vossloh-Schwabe

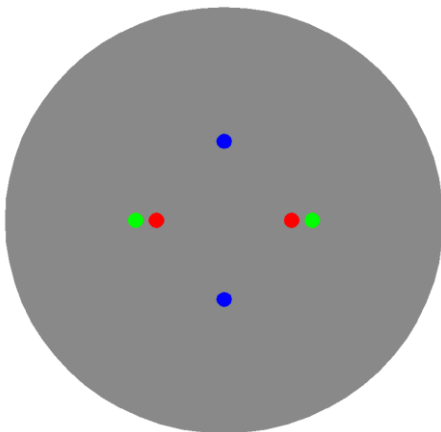
Features VS Benefits

- * The GooLED-VOS-8630 Vossloh-Schwabe Pin Fin LED Heat Sinks are specifically designed for luminaires using the Vossloh-Schwabe LED engines.
- * Mechanical compatibility with direct mounting of the LED engines to the LED cooler and thermal performance matching the lumen packages.
- * For spotlight and downlight designs from 1,200 to 3,200 lumen.
- * Thermal resistance range R_{th} 2.5°C/W.
- * Modular design with mounting holes foreseen for direct mounting of Vossloh-Schwabe COB series.
- * Diameter 86.5mm - standard height 30.0mm Other heights on request.
- * Forged from highly conductive aluminum.



Zhaga LED engine and radiator assembly is a unified future international standardization

- * Below you find an overview of Vossloh-Schwabe COB's and LED modules which standard fit on the Pin Fin LED Heat Sinks.
- * In this way mechanical after work and related costs can be avoided, and lighting designers can standardize their designs on a limited number of LED Pin Fin LED Heat Sink.



Vossloh-Schwabe LED Modules directly Mounting Options

Vossloh-Schwabe LUGA Shop Gen. 5/ Gen.6 COB Series (28.0*28.0):

- | | |
|-------------|-------------|
| DMS120***G; | DMS120***H; |
| DMS12C***G; | DMS12C***H; |
| DMS18C***G; | DMS18B***H; |
| DMS18Q***G; | |

Vossloh-Schwabe LUGA Shop TW COB Series:

- TW2817;
- TW2820;

With the Zhaga Book 3 holders for the green indicator marks.

BJB holder: 47.319.2030.50;

AAG.STUCCHI: 8102-G2

Without the holders for the blue indicator marks.

Direct mounting with machine screws M3x6.5mm.

Vossloh-Schwabe LUGA Shop Gen. 5/ Gen.6 COB Series (19.0*19.0):

- | | |
|-------------|-------------|
| DMS124***G; | DMS125***H; |
| DMS125***G; | DMS126***H; |
| DMS126***G; | DMS128***H; |
| DMS128***G; | |

With the Zhaga Book 3 holders for the green indicator marks.

BJB holder: 47.319.2021.50;

AAG.STUCCHI: 8101-G2

Without the holders for the red indicator marks.

Direct mounting with machine screws M3x6.5mm.



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Mounting Options and Drawings & Dimensions

Example:GooLED-VOS-8630-B-1,2

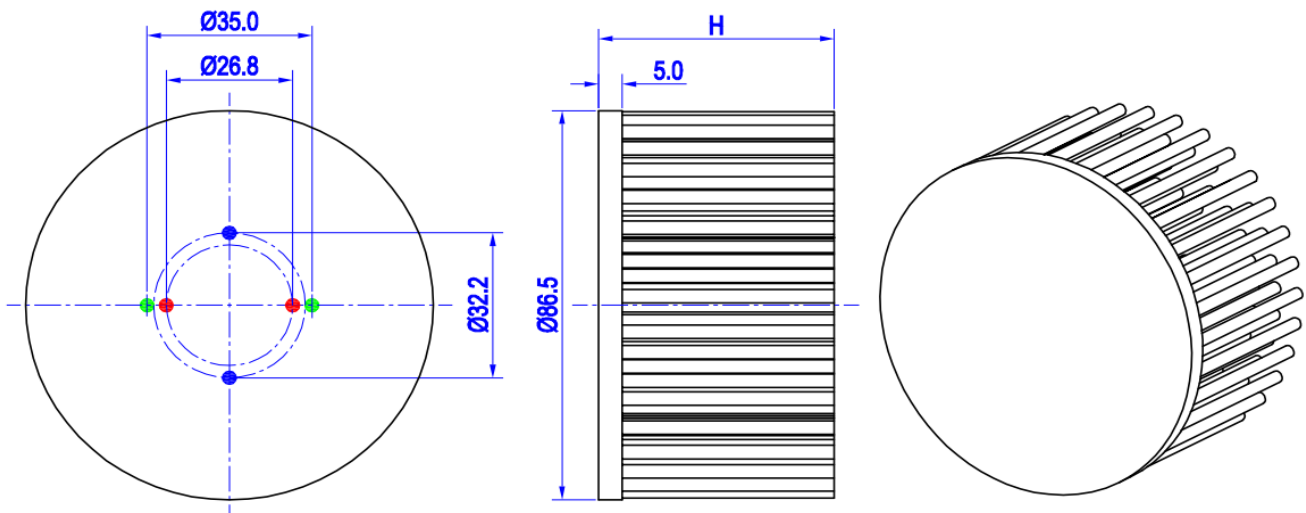
Example:GooLED-VOS-86 **1** - **2** - **3**

- 1** Height (mm)
- 2** Anodising Color
B-Black
C-Clear
Z-Custom
- 3** Mounting Options - see graphics for details Combinations available
Ex.order code - 12
means option 1 and 2 combined

Notes:

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

MOUNTING OPTION	Module type	Holder NO.	THREAD	THREAD DEPTH	THREAD HOLE DISTANCE
1	COB series (19.0*19.0)	/	M3	6.5mm	26.8mm/ 2-@180°
2	COB series (28.0*28.0)	/	M3	6.5mm	32.2mm/ 2-@180°
3	COB series (28.0*28.0)	BJB Holder 47.319.2030.50	M3	6.5mm	35.0mm/ 2-@180° (Zhaga book 3)
		AAG.STUCCHI 8102-G2			
	COB series (19.0*19.0)	BJB Holder 47.319.2021.50			
		AAG.STUCCHI 8101-G2			





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GooLED-VOS-8630 Pin Fin LED Heat Sink Φ86.5mm for Vossloh-Schwabe

The product data table

	Model No.	GooLED-VOS-8630
	Heatsink Size	Φ86.5xH30mm
	Heatsink Material	AL1070
	Finish	Black Anodized
	Weight (g)	152.0
	Dissipated power (T_{hs-amb},50°C)	20.0 (W)
	Cooling surface area (mm²)	48926
	Thermal Resistance (R_{hs-amb})	2.5 (°C/W)

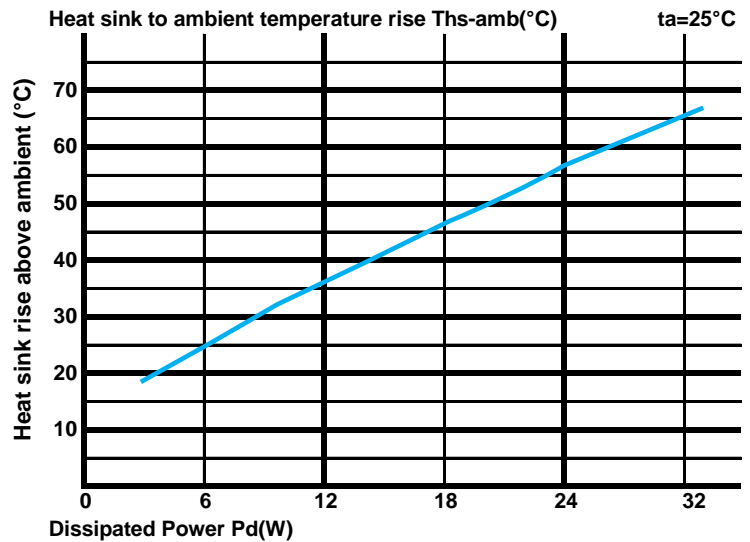
The thermal data table

* 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-ηL).

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

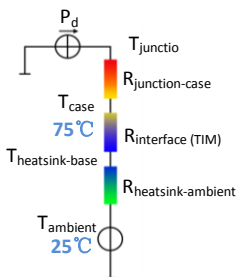
Dissipated Power Pd(W)	Pd = Pe x (1-ηL)	Heat sink to ambient thermal resistance R _{hs-amb} (°C/W)	Heat sink to ambient temperature rise T _{hs-amb} (°C)
		GooLED-VOS-8630	
6.0		4.00	24.0
12.0		2.92	35.0
18.0		2.56	46.0
24.0		2.33	56.0
32.0		2.03	65.0



*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.



*Thermal resistance is a heat property and a measurement of a temperature difference by which an object or material resists a heat flow.

Geometric shapes are different, the thermal resistance is different. Formula: $\theta = (T_{hs} - T_a) / P_d$

θ - Thermal Resistance [°C/W]; T_{hs} - Heatsink temperature; T_a - Ambient temperature;

*The thermal resistance between the junction section of the light-emitting diode and the aluminum substrate side of the package outer shell is R_{junction-case}, the thermal resistance of the TIM outside the package is R_{interface (TIM)} [°C/W], the thermal resistance with the heat sink is R_{heatsink-ambient} [°C/W], and the ambient temperature is T_{ambient} [°C].

*Thermal resistances outside the package R_{interface (TIM)} and R_{heatsink-ambient} can be integrated into the thermal resistance R_{case-ambient} at this point. Thus, the following formula is also used:

$$T_{junction} = (R_{junction-case} + R_{case-ambient}) \cdot P_d + T_{ambient}$$