



EtraLED-LG-8550 LG Innotek Modular Passive Star Heat Sink Ф85mm

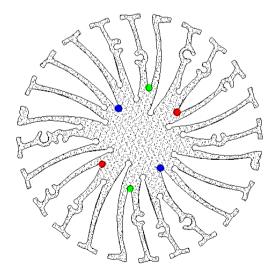
Features VS Benefits

- * The EtraLED-LG-8550 LG Innotek Modular Passive Star LED Heat Sinks are specifically designed furninaires using the LG Innotek 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 1700 to 4,300 lumen.
- * Thermal resistance range Rth 1.72°C/W.
- * Modular design with mounting holes foreseen for direct mounting of LG Innotek COB series.
- * Diameter 85.0mm standard height 50.0mm 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 LG Innotek COB's and LED modules which standard fit on the srar 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 srar LED heat sinks.





LG Innotek LED Modules directly Mounting Options LG Innotek 7W&10W COB series.

LEMWM19480xxxxxx

LEMWM19490xxxxxx;

LEMWM19680xxxxxx

LEMWM19690xxxxxx;

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

TE Connectivity Holder: 2213382-1;

Without the holders for the blue indicator marks.

Direct mounting with machine screws M3x6.5mm.

LG Innotek 16W&21W COB series.

LEMWM24780xxxxxx;

LEMWM24790xxxxxx

LEMWM24980xxxxxx;

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

TE Connectivity Holder: 2213130-1

BJB Holder:47.319.2011.50

Without the holders for the red indicator marks.

Direct mounting with machine screws M3x6.5mm.





Mounting Options and Drawings & Dimensions

Example: EtraLED-LG-8550-B-1,2

Example:EtraLED-LG-85 1 -

xample.EtraLED-LG-05

1 Height (mm)

Anodising Color

B-Black

C-Clear

Z-Custom

Mounting Options - see graphics for details Combinations available

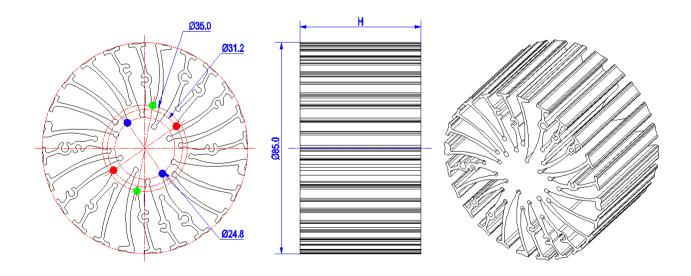
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means option 1 and 2 combined

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	7W&10W COB	/	M3	6.5mm	24.8mm/ 2-@180°
2	16W&21W COB	/	М3	6.5mm	31.2mm/ 2-@180°
3		BJB Holder 47.319.2011.50	МЗ	6.5mm	35.0mm/ 2-@180° (Zhaga Book 3)
		TE Holder 2213130-1			
	7W&10W COB	TE Holder 2213382-1			







EtraLED

EtraLED-LG-8550 LG Innotek Modular Passive Star Heat Sink Ф85mm

The product deta table

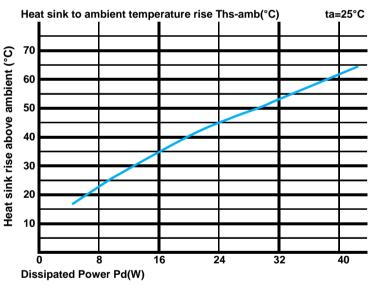


Model No.	EtraLED-LG-8550		
Heatsink Size	Ф85хH50mm		
Heatsink Material	AL6063-T5		
Finish	Black Anodized		
Weight (g)	286.0		
Dissipated power (Ths-amb,50℃)	29.0 (W)		
Cooling surface area (mm²)	94366		
Thermal Resistance (Rhs-amb)	1.72 (°C/W)		

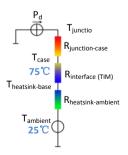
The thermal data table

- * 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: $Pd = Pe \times (I \eta L)$.
 - Pd Dissipated power ; Pe Electrical power ; $\eta L = \text{Light effciency of the LED module};$

Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)	
		EtraLED-LG-8550		
Dissipated Power Pd(W)	8.0	2.88	23.0	
	16.0	2.19	35.0	
	24.0	1.88	45.0	
	32.0	1.66	53.0	
	40.0	1.53	61.0	



- *The aluminum substrate side of the package outer shell is thermally connected to the heat sink via TIM (Thermal interface material).
- $\label{thm:module} \mbox{MingFa recommends the use of a high thermal conductive interface between the LED module and the LED cooler.}$
- $Either thermal\ grease, A\ thermal\ pad\ or\ a\ phase\ change\ thermal\ pad\ thickness\ 0.1-0.15 mm\ is\ recommended.$



- *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: $\theta = (Ths Ta)/Pd$
- θ Thermal Resistance [°C/M]; Ths Heatsink temperature; Ta 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,M"], the thermal resistance with the heat sink is $R_{heatsink-ambient}$ ["C,M"], 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: $T_{iunction} = (R_{iunction-case} + R_{case-ambient}) \cdot Pd + T_{ambient}$

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