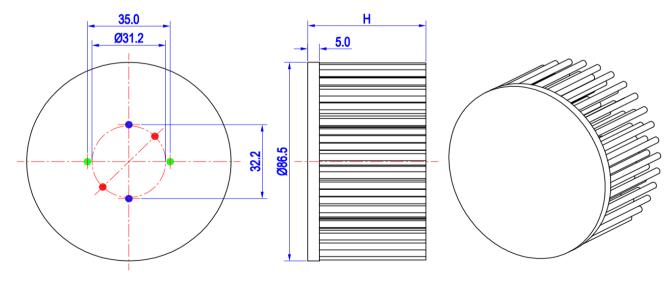


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MOUNTING OPTION	Module type	Holder NO.	LEDiL products		THREAD	THREAD	THREAD HOLE
			Stella Series	Olivia series	INKEAD	DEPTH	DISTANCE
1	21W&32W COB	/	1	FN14637-S; FN14828-M;	M3	6.5mm	31.2mm/ 2-@180°
2	42W&56W COB	/			M3	6.5mm	32.2mm/ 2-@180°
3	21W&32W COB	BJB Holder 47.319.2011.50			M3	6.5mm	35.0mm/ 2-@180° (Zhaga Book 3)
		TE Holder 2213130-1					
	42W&56W COB	BJB Holder 47.319.2030.50					
		TE Holder 2213480-1					



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GooLED-LG-8650 Pin Fin Heat Sink Φ86.5mm for LG Innotek

The product deta table

GooLED	Model No.	GooLED-LG-8650		
GooLED	Heatsink Size	Ф86.5хН50mm		
	Heatsink Material	AL1070		
	Finish	Black Anodized		
	Weight (g)	210.0		
	Dissipated power (Ths-amb,50°C)	27.0 (W)		
	Cooling surface area (mm ²)	77577		
	Thermal Resistance (Rhs-amb)	1.85 (°C/W)		

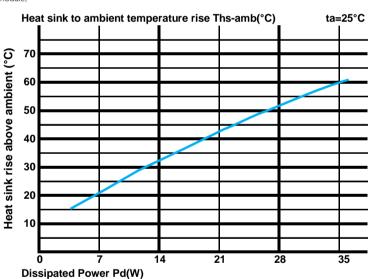
The thermal data table

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

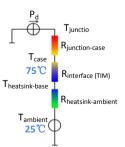
Pd - Dissipated power ; Pe - Electrical power ; ηL = Light effciency of the LED module;

Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)	
		GooLED-LG-8650		
Dissipated Power Pd(W)	7.0	2.86	20.0	
	14.0	2.21	31.0	
	21.0	2.00	42.0	
	28.0	1.82	51.0	
	35.0	1.69	59.0	



*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: $\theta = (Ths - Ta)/Pd$

heta - Thermal Resistance [°C/W] ; 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/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 $R_{\text{interface (TIM)}}$ and $R_{\text{heatsink-ambient}}$ can be integrated into the thermal resistance $R_{\text{case-ambient}}$ at this point. Thus, the following formula is also used: $T_{junction} = (R_{junction-case} + R_{case-ambient}) \cdot Pd + T_{ambient}$

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