

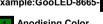
### **Features VS Benefits**

- \* Mechanical compatibility with direct mounting of the LED modules to the LED cooler and thermal performance matching the lumen packages.
- \* For spotlight and downlight designs from 1,800 to 5,200 lumen.
- \* Thermal resistance range Rth 1.56°C/W.
- \* Modular design with mounting holes foreseen for direct mounting of a wide range of LED modules and COB's:
- \* Diameter 86.5mm Standard height 65.0mm, Other heights on request.
- \* Forged from highly conductive aluminum.
- \* 2 standard colors clear anodised black anodised.
- \* Zhaga Book 3 Spot Light modules: Bridgelux ,Cree ,Citizen ,Edison ,GE lighting, LG Innotek ,Lumileds ,Lumens ,Luminus ,Nichia ,Osram ,Philips ,Prolight Opto, Samsung ,Seoul ,Tridonic ,Vossloh-Schwabe ,Xicato.
- 01) Bridelux: Vero 18/22 Vero SE 18/29 LED engines;
- 02) Cree: XLamp CXA 25xx, Xlamp CXB 25xx, CXA 30xx, Xlamp CXB 30xx LED eng
- 03) Citizen: CLU036, CLU038, CLU721, CLU711, CLU046, CLU048, CLU731 LED engines;
- 04) Edison: EdiLex III COB LED engines;
- 05) GE lighting: Infusion™ LED engines;
- 06) LG Innotek: 32W, 42W, 56W LED engines;
- 07) LumiLEDS: LUXEON 1211, LUXEON 1216, LUXEON 1812, LUXEON 1825 LED eng
- 08) Lumens: Ergon-COB-2530, 2540, 3050, 3070 LED engines;
- 09) Luminus: CXM-18, CLM-22, CXM-22 LED engines;
- 10) Nichia: NFCWL036B, NFCLL036B, NFCWL060B, NFCLL060B LED engines;
- 11) Osram: SOLERIQ® S 19, Core series LED engines;
- 12) Philips: Fortimo SLM LED engines:
- 16) Prolight Opto: PABS, PABA, PACB, PANA LED engines;
- 13) Samsung: LC026B, LC033B, LC040B, LC040D, LC060D, LC080D LED engines;
- 14) Seoul Semiconductor: Acrich MJT COBs, DC COB LED engines;
- 15) Tridonic: SLE G6 19mm, SLE G6 23mm LED engines;
- 17) Vossloh-Schwabe: LUGA Shop and LUGA C LED engines;
- 18) Xicato: XSM, XIM, XTM LED engines;

## **Order Information**

Example:GooLED-8665-B

Example: GooLED-8665-





C-Clear **Z-Custom** 

### **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.







































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# The product deta table

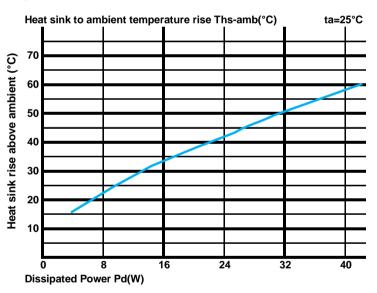


Model No.	GooLED-8665
Heatsink Size	Ф86.5хH65mm
Heatsink Material	AL1070
Finish	Black Anodized
Weight (g)	293.0
Dissipated power (Ths-amb,50℃)	32.0 (W)
Cooling surface area (mm²)	95583
Thermal Resistance (Rhs-amb)	1.56 (°C/W)

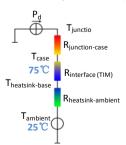
#### The thermal data table

- \* 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;  $\eta L = \text{Light effciency of the LED module}$ ;

Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance	Heat sink to ambient temperature rise
		Rhs-amb (°C/W) Ths-amb (°C)  GooLED-8665	
Dissipated Power Pd(W)	8.0	2.75	22.0
	16.0	2.13	34.0
	24.0	1.75	42.0
	32.0	1.56	50.0
	40.0	1.45	58.0



\*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:  $\theta = (Ths Ta)/Pd$
- $\theta$  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  $R_{\text{junction-case}}$ , the thermal resistance of the TIM outside the package is  $R_{\text{interface}}(\text{TIM})[^{\text{C}}\text{CM}]$ , the thermal resistance with the heat sink is  $R_{\text{heatsink-ambient}}[^{\text{C}}\text{CM}]$ , and the ambient temperature is  $T_{\text{ambient}}[^{\text{C}}\text{C}]$ .
- \*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:  $T_{junction} = (R_{junction-case} + R_{case-ambient}) \cdot Pd + T_{ambient}$

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