

## **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 900 to 2,600 lumen.
- \* Thermal resistance range Rth 3.23°C/W.
- \* Modular design with mounting holes foreseen for direct mounting of a wide range of LED modules and COB's:
- \* Diameter 68.0mm Standard height 50.0mm , 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 10/13 Vero SE 10/13 LED engines;
- 02) Cree: XLamp CXA 13xx, Xlamp CXB 15xx, CXA 18xx LED engines;
- 03) Citizen: CLU026, CLU028, CLU036, CLU038, CLU721, CLU711, CLU701 LED engines;
- 04) Edison: EdiLex III COB LED engines;
- 05) GE lighting: Infusion™ LED engines;
- 06) LG Innotek: 7W, 10W, 16W, W21 LED engines;
- 07) LumiLEDS: LUXEON 1202, LUXEON 1203 LED engines;
- 08) Lumens: Ergon-COB-15xx, 18xx LED engines;
- 09) Luminus: CXM-6-AC, CIM/CLM/CXM-9 -A LED engines;
- 10) Nichia: NVxxx024Z, NVxxx036Z LED engines;
- 11) Osram: SOLERIQ® S 9/S13, Z6 Mini LED engines;
- 12) Philips: Fortimo SLM LED engines;
- 16) Prolight Opto: PACJ-7xxx-xxxx, PACJ-14xxx-xxxx, PACJ-21xxx LED engines;
- 13) Samsung: L010C, L020C, L003D, L006D, L009D, L013D LED engines;
- 14) Seoul Semiconductor: Acrich MJT COBs, DC COB LED engines;
- 15) Tridonic: SLE G6 10mm, SLE G6 15mm LED engines;
- 17) Vossloh-Schwabe: LUGA Shop and LUGA C LED engines;
- 18) Xicato: XTM LED engines;

#### **Order Information**

Example:GooLED-6850-B

Example:GooLED-6850-



**Anodising Color** 

B-Black

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

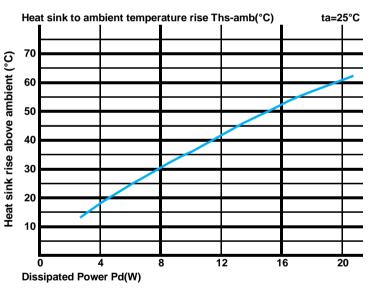


Model No.	GooLED-6850	
Heatsink Size	Ф68xH50mm	
Heatsink Material	AL1070	
Finish	Black Anodized	
Weight (g)	153.0	
Dissipated power (Ths-amb,50℃)	15.5 (W)	
Cooling surface area (mm²)	59562	
Thermal Resistance (Rhs-amb)	3.23 (°C/W)	

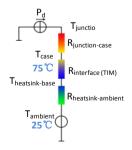
#### The thermal data table

- \* 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 Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)
		GooLED-6850	
Dissipated Power Pd(W)	4.0	4.25	17.0
	8.0	3.75	30.0
	12.0	3.42	41.0
	16.0	3.25	52.0
	20.0	3.00	60.0



- \*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  $R_{\text{function-case}}$ , the thermal resistance of the TIM outside the package is  $R_{\text{interface}}$  (TIM) ["CM], 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:  $T_{junction} = (R_{junction-case} + R_{case-ambient}) \cdot Pd + T_{ambient}$

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