



## xLED-6050 Pin Fin Heat Sink Ф60mm

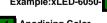
#### **Features VS Benefits**

- \* 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 2,200 lumen.
- \* Thermal resistance range Rth 3.85°C/W.
- \* Modular design with mounting holes foreseen for direct mounting of a wide range of LED modules and COB's:
- \* Diameter 60.0mm 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:xLED-6050-B

Example:xLED-6050-



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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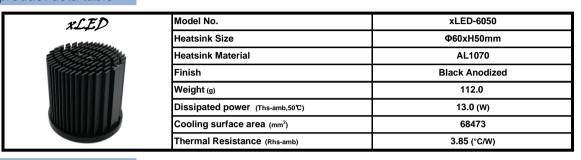
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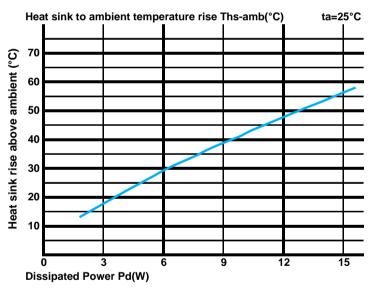
# The product deta table



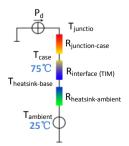
#### The thermal data table

- \* 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:  $Pd = Pe x (1-\eta L)$ .
  - Pd Dissipated power ; Pe Electrical power ;  $\eta L$  = 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)
		xLED-6050	
Dissipated Power Pd(W)	3.0	5.67	17.0
	6.0	4.83	29.0
	9.0	4.22	38.0
	12.0	4.00	48.0
	15.0	3.73	56.0



- \*The aluminum substrate side of the package outer shell is thermally connected to the heat sink via TIM (Thermal interface material).
- ${\bf Ming Fa\ recommends\ the\ use\ of\ a\ high\ thermal\ conductive\ interface\ between\ the\ LED\ module\ and\ the\ LED\ cooler.}$
- 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 Geometric shapes are different, the thermal resistance is different. Formula: θ =(Ths-Ta)/Pd
- $\theta$  Thermal Resistance [°C/W] ; Ths - Heatsink temperature ; Ta - Ambient
- \*The thermal resistance between the junction section of the light-emitting diode and the aluminum substrate side of the shell is  $R_{junction\text{-}case}$ , the thermal resistance of the TIM outside the package is  $R_{interface\ (TIM)}$  [°C/W], the thermal resistance with heat sink is  $R_{heatsink\text{-}ambient}$  [°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:  $T_{iunction}=(R_{iunction-case}+R_{case-ambient})-Pd+T_{ambient}$

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