EtraLED

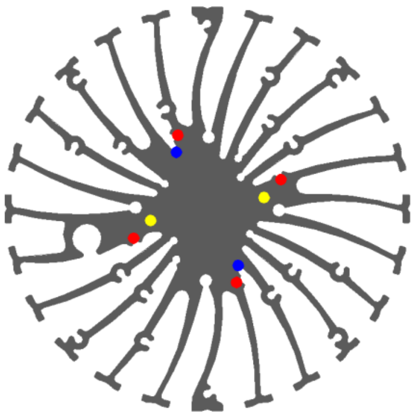
EtraLED-BRI-11020 Bridgelux Modular Passive Star LED Heat Sink Φ110mm

Features VS Benefits

* The EtraLED-BRI-11020 Bridgelux modular passive star LED heat sink are specifically designed for luminaires using the Bridgelux 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 1,600 to 4,200 lumen.
* Thermal resistance range Rth 1.79°C/W.
* Modular design with mounting holes foreseen for direct mounting of Bridgelux V Series™, Vero® SE Series, Vero® Series, H Series™ and Vesta™ Series LED engines.
* Diameter 110.0mm - standard height 20.0mm, Other heights on request.
* Extruded from highly conductive aluminum.

Zhaga LED engine and radiator assembly is a unified future international standardization

* Below you find an overview of Bridgelux 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.



Bridgelux LED Modules directly Mounting Options

Bridgelux V18, V22 LED Array Series:

BXRE-20xxxxxx-x-xx;	BXRE-40xxxxxx-x-xx;
BXRE-27xxxxxx-x-xx;	BXRE-50xxxxxx-x-xx;
BXRE-30xxxxxx-x-xx	BXRE-57xxxxxx-x-xx
BXRE-35xxxxxx-x-xx;	BXRE-65xxxxxx-x-xx;

With the Zhaga Book 3 Holders:
BJB holder:47.319.2224.50; 47.319.2030.50;
Direct mounting with machine screws M3x6.5mm, Blue indicator marks.

Bridgelux Vero® Series Vero 18, Vero 29 LED Array and Vero® SE Series Vero 18 SE, Vero 29 SE LED Array

BXRC-27xxxxx-x-xx ;	BXRC-50xxxxxx-x-xx;
BXRC-30xxxxx-x-xx ;	BXRC-57xxxxxx-x-xx
BXRC-35xxxxx-x-xx ;	BXRC-65xxxxxx-x-xx;
BXRC-40xxxxx-x-xx ;	

With the Bridgelux Holder:
Direct mounting with machine screws M3x6.5mm.
Vero 18 for the yellow indicator mark, Vero 29 for the red indicator mark.

Bridgelux® H Series™ H12, H15 LED Array:

BXRH-27xxxxx-x-xx ;	BXRH-35xxxxxx-x-xx;
BXRH-30xxxxx-x-xx ;	BXRH-40xxxxxx-x-xx

With the Zhaga Book 3 Holders:
BJB holder:47.319.2131.50; 47.319.2021.50;
Direct mounting with machine screws M3x6.5mm, Blue indicator marks.

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Mounting Options and Drawings & Dimensions

Example:EtraLED-BRI-11020-B-1,2

Example:EtraLED-BRI-110 1 - 2 - 3

1 Height (mm)

2 Anodising Color

B-Black

C-Clear

Z-Custom

3 Mounting Options - see graphics for details Combinations available

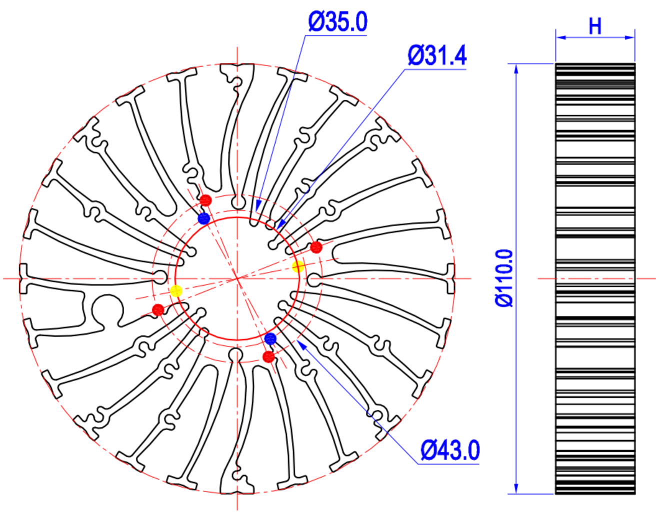
Ex.order code - 12

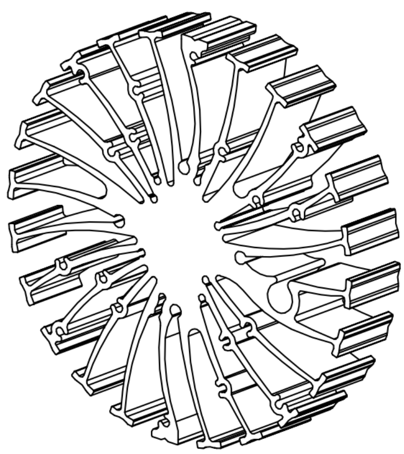
means option 1 and 2 combined

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	Vero 18 Vero SE 18	Bridgelux	M3	6.5mm	31.4mm/ 2-@180°
2	H12	BJB Holder 47.319.2131.50	M3	6.5mm	35.0mm/ 2-@180°
	H15	BJB Holder 47.319.2021.50			
	V18	BJB Holder 47.319.2224.50			
	V22	BJB Holder 47.319.2030.50			
3	Vero 29 Vero SE 29	Bridgelux	M3	6.5mm	43.0mm/ 4-@90°





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The product deta table

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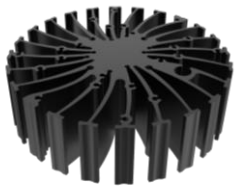


Model No.	EtraLED-BRI-11020
Heatsink Size	Φ110xH20mm
Heatsink Material	AL6063-T5
Finish	Black Anodized
Weight (g)	165.0
Dissipated power (Ths-amb,50℃)	28.0 (W)
Cooling surface area (mm²)	52211
Thermal Resistance (Rhs-amb)	1.79 (°C/W)

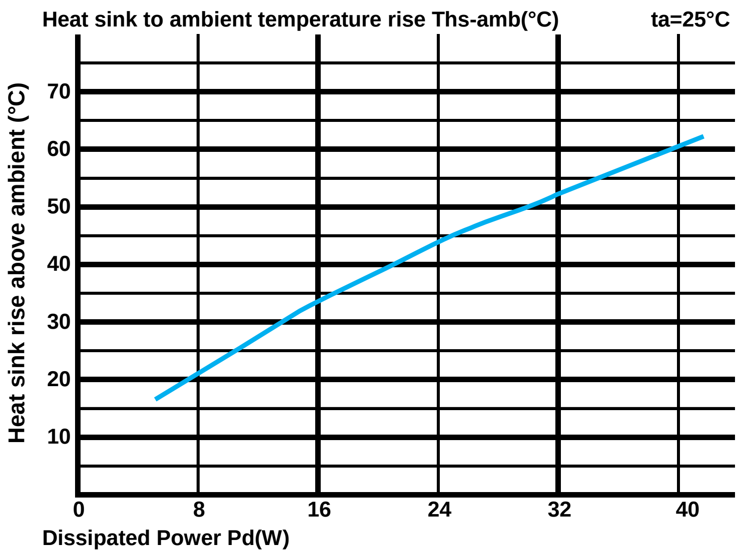
The thermal data table

* 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 x (1-ηL).

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

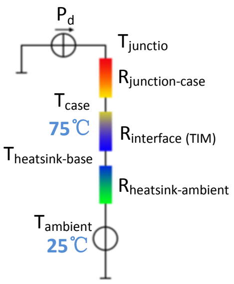
	Pd = Pe x (1-ηL)	Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)
		EtraLED-BRI-11020	
Dissipated Power Pd(W)	8.0	2.50	20.0
	16.0	2.06	33.0
	24.0	1.83	44.0
	32.0	1.63	52.0
	40.0	1.50	60.0



*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: θ =(Ths－Ta)/Pd

θ - 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 $R_{interface\ (TIM)}$ 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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