

MechaTronix in LED

– MOUNTING INSTRUCTION –

ModuLED Giga-HBG High Bay LED Cooler ø152mm with driver connection system



Product Details

Model n°		
Dimension (mm) ^{*1}	ø152 x h100	ø152 x h150
Volume (mm ³)	566553	857898
Cooling Surface (mm ²)	363547	541592
Weight (gr)	1530	2316
Thermal Resistance (°C/W) ^{*2}	0.52	0.46
Power Pd (W) ^{*3}	95	110
Heat Sink Material	AL6063-T5	AL6063-T5

^{*1} 3D files are available in ParaSolid, STP and IGS on request

^{*2} The thermal resistance Rth is determined with a calibrated heat source of 30mm x 30mm central placed on the heat sink, Tamb 40° and an open environment. Reference data @ heat sink to ambient temperature rise Ths-amb 50°C
The thermal resistance of a LED cooler is not a fix value and will vary with the applied dissipated power Pd

^{*3} Dissipated power Pd. Reference data @ heat sink to ambient temperature rise Ths-amb 50°C
The maximal dissipated power needs to be verified in function of required case temperature Tc or junction temperature Tj and related to the estimated ambient temperature where the light fixture will be placed
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

η_L = Light efficiency of the LED module

Notes:

- MechaTronix reserves the right to change products or specifications without prior notice.
- Mentioned models are an extraction of full product range.
- For specific mechanical adaptations please contact MechaTronix.

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Mounting Instruction

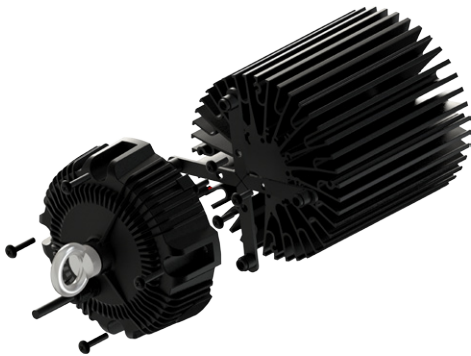
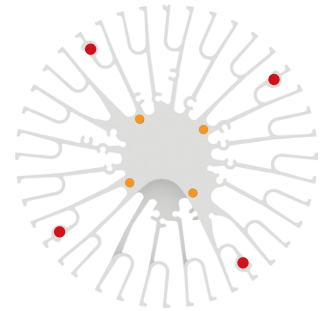
MEAN WELL HBG series LED Drivers



The Mean Well HBG LED drivers are specifically developed for mid bay and high bay applications. The round shape of the HBG LED drivers gives an ergonomic fitting with the ModuLED high bay cooler. Thermally this driver is specific designed to sit on top of a LED cooler, with the critical components thermally coupled to the top of the driver so free air convection can be optimal. In combination with the MechaTronix ModuLED Mega HBG this makes your ideal LED engine up to 10,000 lumen.

Mounting indicator marks overview

Keep in mind to keep a gap at least 10mm between the LED cooler and the driver to allow free air convection - this can be obtained with spacers or with the MTX dedicated Mounting Instruction.



MEAN WELL HBG-160 series LED driver

Model Names

- HBG-160-24
- HBG-160-36
- HBG-160-48
- HBG-160-60

Driver mounting

- Direct mounting with 4 spacers + (4x) M5 screws
keep minimal 10mm gap between the LED cooler
Red indicator marks
- With Connector set for HBG-160 + (4x) M5 x 20mm screws
Red indicator marks

Model Names

- Connector set for HBG-160

Connector set mounting

- Direct mounting on the LED cooler with 4 screws M5 x 12mm
Orange indicator marks