


Specifications

LED Module M6H Series



Features

- Lumileds Luxeon TX LED;
- IP68 rated modules;
- 5VA rated for fire resistance;
- Lumen flux: up to 3050lm per module;
- Low maintenance cost with lifetime >60,000hrs (L70);
- Multiple lighting distribution options available;
- Optical lens transmittance up to 93%;
- Multiple modules can easily be connected in series via connector offering;
- 10 years warranty;
- Approvals:  

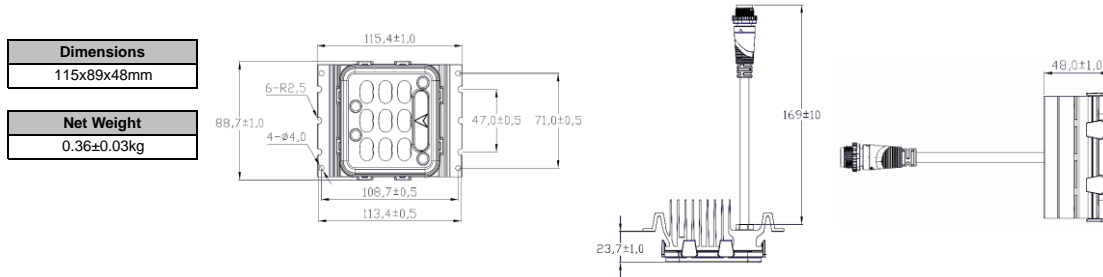
Applications

- Street Lighting
- High/ Low Bay Lighting

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Mechanical Drawings



Performance

Series	Lighting Source	Drive Current	T _c [7]	Nominal CCT	Minimum CRI [3]	Minimum Flux [1][2][3]	Typical Flux [1][2][3]	Typical Efficacy [1][2][3]	Color Consistency	Location of T _c Point
M6H	9 x Lumileds Luxeon TX LEDs	700mA	54.7°C	3000K	70	1995lm	2100lm	117lm/W	5 SDCM	On the heat sink of the module, 21.8mm from the side edge and 60.2mm from the cord end edge. See the picture below: 
				4000K		2138lm	2250lm	125lm/W		
				5000K		2138lm	2250lm	125lm/W		
				5700K	2138lm	2250lm	125lm/W			
				3000K	80	1696lm	1785lm	99lm/W		
				4000K		1817lm	1913lm	107lm/W		
		5000K	1817lm	1913lm		107lm/W				
		1050mA	69.3°C	3000K	70	2708lm	2850lm	102lm/W		
				4000K		2898lm	3050lm	109lm/W		
				5000K		2898lm	3050lm	109lm/W		
				5700K	2898lm	3050lm	109lm/W			
				3000K	80	2302lm	2423lm	87lm/W		
4000K	2463lm			2593lm		93lm/W				
5000K	2463lm	2593lm	93lm/W							

Notes: [1] Flux and efficacy values above are based on steady-state measurements done in 25°C ambient temperature where there is a tolerance of ±3°C on T_c.

[2] Flux and efficacy data above are based on lens transmittance 93%.

[3] Lumileds LED maintains a tolerance of ±6.5% on luminous flux and ±2 on CRI.

Item	Minimum	Typical	Maximum
Forward Voltage (@ 700mA, T _c =54.7°C) [4][5]	24.75V	25.65V	27V
Power Consumption (@ 700mA, T _c =54.7°C) [4]	17.33W	17.96W	18.9W

Notes: [4] Voltage and power values are based on calculated LED values @100% driver efficiency.

Use for reference only since temperature and LED driver current have influence on forward voltage and on power consumption.

[5] Lumileds LED maintains a tolerance of ±0.06V on forward voltage measurements.

Current	L70	Maximum T _c [6]
700mA	>60,000 hrs	100.7°C
1050mA	>60,000 hrs	98.5°C

Current	@700mA	@1050mA	@Maximum [7] 1100mA
Maximum T _c [6]	100.7°C	98.5°C	98.2°C

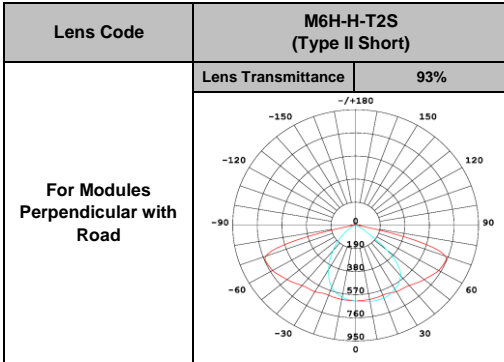
Notes: [6] Theoretically calculated T_c value based on maximum T_c 105°C as per warranty.

[7] Maximum actual drive current. Drive current, including current ripple, should not exceed 1200mA.

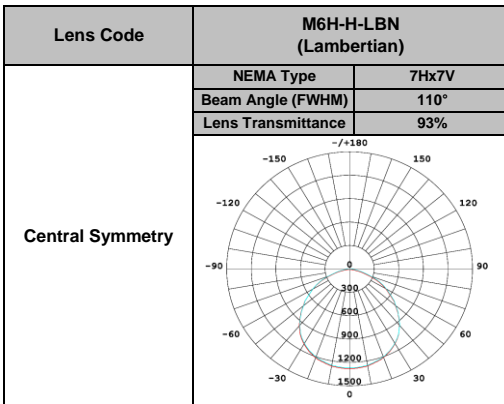
IP Rating	Storage Temperature	Relative Humidity
IP68	-40~+50°C	10%~90%

Beam Type

For Street Light Applications



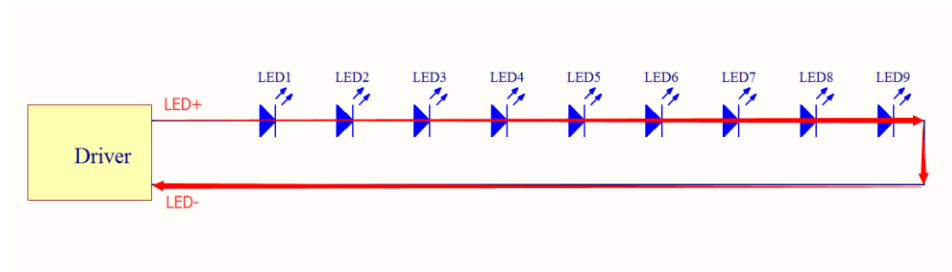
For High/ Low Bay Light Applications



Notes: — C0/180 — C90/270

Installation guide: the arrow on the lens (parallel with C90/270) should be perpendicular to road and directs to road center.

Circuit Diagram











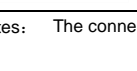
Drivers Recommendation

Driver Description	Inventronics	Philips
Driver for 1 module @700mA	EUC-026S070DS ⁵	XI040C070V056CNJ1 ⁵
Driver for 2 modules @700mA	EUC-052S070DT ⁵	XI075C070V105CNY2 ⁵
Driver for 3 modules @700mA	EUG-075S105DT ⁴	XI075C070V105CNY2 ⁵
Driver for 4 modules @700mA	EUG-096S105DT ⁴	LEDINTA700C140F3O ⁵
Driver for 5 modules @700mA	EUG-150S105DT ⁴	LEDINTA700C140F3O ⁵
Driver for 1 module @1050mA	EUC-036S105DT ⁵	XI040C105V042CNJ1 ⁵
Driver for 2 modules @1050mA	EUG-075S105DT ⁴	XI075C105V070CNY2 ⁵
Driver for 3 modules @1050mA	EUG-096S105DT ⁴	XI150C105V140CNF1 ⁵
Driver for 4 modules @1050mA	EUG-150S105DT ⁴	XI150C105V140CNF1 ⁵
Driver for 5 modules @1050mA	EUG-150S105DT ⁴	XI180C125V200BSF1 ⁴⁵

Notes:

1. Alternative board + driver configurations can be evaluated upon request.
2. Please refer to the driver datasheet for detailed specifications.
3. All drivers feature 0-10V dimming.
4. Driver output current can be adjusted.
5. For outdoor lighting application, this driver should work with a line-earth 10KV SPD.

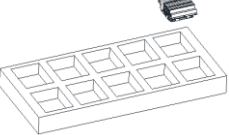


Waterproof Connectors Recommendation

Picture	Model	Description	Length
	C2A-01M500	IP68 female connector for 1 module	Single female terminal 49.5mm + flying leads 550±50mm
	C2A-S2M500	IP68 female connector for 2 modules in series	Dual female terminal 78.1mm + flying leads 550±50mm
	C2A-S3M500	IP68 female connector for 3 modules in series	Triple female terminal 113.1mm + flying leads 550±50mm
	C2A-S4M500	IP68 female connector for 4 modules in series	Quad female terminal 148.1mm + flying leads 550±50mm
	C2A-01F500	IP68 male connector	Single male terminal 55.7mm + flying leads 550±50mm
	C2A-1FS1M	IP68 male and female connector for extension	Single female terminal 49.5mm + cable 200±20mm + single male terminal 55.7mm
	C2A-S2M200F	IP68 male and female connector for 2 modules in series	Dual female terminal 78.1mm + cable 200±20mm + single male terminal 55.7mm
	C2A-S3M200F	IP68 male and female connector for 3 modules in series	Triple female terminal 113.1mm + cable 200±20mm + single male terminal 55.7mm
	C2A-S4M200F	IP68 male and female connector for 4 modules in series	Dual female terminal 148.1mm + cable 200±20mm + single male terminal 55.7mm

Notes: The connectors are allowed to be used in combination for 5-module connection and extending purpose.

Cable Specifications	Withstanding DC Voltage	Withstanding Current	Certification	Working Temperature
2x18 AWG	420Vdc	10A	UL	-40~+80°C

Packaging

10 pcs/tray	2 trays/ carton	20 pcs/carton
		

- Notes:
1. Carton dimensions: 545x415x165mm
 2. Gross weight: 8.5kg (Empty package: 1.5kg)

Module Part Number

Example:

M6H H T2S LTX 730
 1 2 3 4 5

1. Module Series	2. Voltage	3. Beam Type	4. LED Type	5. CRI/CCT
M6H - High Power LED's	H = 24.75-27V	T2S = Type II Short LBN = Lambertian	LTX = Lumileds Luxeon TX	730 = 70CRI/3000CCT 740 = 70CRI/4000CCT 750 = 70CRI/5000CCT 757 = 70CRI/5700CCT 830 = 80CRI/3000CCT 840 = 80CRI/4000CCT 850 = 80CRI/5000CCT