



**PRODUCT FEATURES**

1. Modularization pluggable technology, free on-site maintenance tools.
2. Low cellular cooling technology and high thermal conductivity, the whole structure of the cooling chip, efficiency heat conduction and heat dissipation performance.
3. Low single star LED light damage does not affect the other light source current.
4. Intelligent constant current drive technology, output stability, break through the life of power, can be automatically adjusted light.
5. Optical compartment IP68 and IK10 protection, the highest level of protection against water and impacts.
6. Constant Light Output (CLO), uniform distribution of light over time.
7. Free series, full power solutions.

**PRODUCT ICONS FEATURE**



**General Information**

Product Range: Street Lighting  
 Product Family: Street Light  
 Product Model: Modular Street Light Master  
 Series Reference: EM6LM  
 Warranty: 5 years  
 Lifespan @ Ta=25°C: L70-L90 F10 100.000 h  
 Lifespan @ Ta=40°C: L70-L90 F10 80.000 h

**Electric Specifications**

Voltage (V): 80-305V AC  
 Frequency (Hz): 50-60 Hz  
 Power Factor (PF): >0.95  
 Power Efficiency (PE %): >90%  
 Flicker (%): 0%  
 Total Harmonic Distortion (THD %): <20%  
 Protection Class: II

**Light Specifications**

System Luminous Efficacy (Lm/W): 110-130 lm/W ±10%  
 Color Render Index (CRI >Ra): 80  
 Calculated Color Temperature (CCT °K): 2200K-6000K  
 Color Consistency (SDCM): <5  
 Unified Glare Rating (UGR): <12  
 Beam Angle (Degrees): Different options regarding lens type  
 Upper Light Output Ratio (ULOR %): 0%

**Protection Specifications**

Optical Compartment Tightness (IP): IP68  
 Auxiliary Compartment Tightness (IP): IP67  
 Impact Resistance (IK): IK10  
 Surge Protection: Basic 4kV/Extended 20kV

**Application Conditions**

T1 Temperature (T1 °C): <80°C @ Ta=25°C  
 T2 Temperature (T2 °C): <60°C @ Ta=25°C  
 Storage Temperature (T3 °C): -40°C +85°C  
 Operating Temperature (T4 °C): -40°C +50°C  
 Operating Humidity (RH%): 5-95%RH

**Control And Communication**

Constant Light Output (CLO): Optional  
 Scheduling/Dimming System: 8 weeks steps/Optional  
 Dimming Function: 0-10V/PWM/DAI (optional)  
 Other Sensors Options: Photoelectric/Movement/Other  
 Wireless Communications Compatibility: Yes

**Installation And Maintenance**

Type: Side fitting. Top fitting need an optional accessory  
 Fitting To Existing Pole: Yes  
 System: Fixing 50mm diameter curve arm pole  
 Vertical Angle Adjustment: Yes with optional accessory  
 Mounting Height: 6-12M  
 Horizontal Angle Adjustment: Yes  
 Replaceable Light Source: Yes  
 Replaceable Driver: Yes  
 Replaceable Lens: Yes  
 Replaceable Cover: Yes  
 Heating/Opening System: Stainless steel screws  
 Wire Connectors System: Threaded fastener

**PCB**

PCB Type: MC PCB  
 PCB Material: Aluminium  
 Thermal Vias: Yes  
 Led Bypass Protection: Yes  
 Overheating Protection: NTC Thermistor

**LED**

Brand: OSRE  
 Type: XT-E  
 Model: K5  
 Max. Luminous Efficacy (Lm/W): 148 Lm/W

**Driver**

Brand: Inventronics  
 Series Type: EUC180/Other series optional  
 Internal or External: External  
 Isolated or Not: Isolated  
 IP: IP67  
 Lifespan @ Tc=40°C: 100,000 h  
 Surge Protection: 4 kV, 20kV  
 Overload and Short Circuit Protection: Yes  
 Thermal Foldback Control: Optional

**HeatSink**

Thermal Interface Material (TIM): Yes  
 Body Material: Aluminium  
 Fin Material: Aluminium  
 Extra Cooling System: The whole structure of radiation

**Housing**

Body Material: Aluminium alloy  
 Finishing: Aluminium  
 Color RAL: Grey/Black/White  
 Cover Material: PC/Lens  
 Cover Type: Clear  
 Locking System: Stainless steel screws

**Optical**

Lens Material: PC

**Wire Connection**

Cable Material: 3\*1.0mm-rubber with cold-pressed terminal  
 Connectors System: Threaded fastener  
 Waterproof Connectors: Yes

**Matters Need Attention**

Matters need attention: 1. Before use, should carefully read the instructions, to avoid accidents and damages.  
 2. Please wear gloves to avoid injury before installation work.  
 3. Lighting installation and wiring work must be carried out in the absence of power.  
 4. Power line joints must do insulation, waterproofing treatment.  
 5. Do not look directly at the light emitting LED lighting in close distance, ensure not hurt the eyes.

**APPLICATION**

- Street and urban lighting
- Residential and industrial areas
- Parks
- Facades



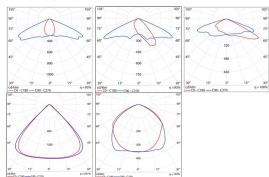
PRODUCT PARAMETERS

Reference	System Power	IP	Current (mA)	System Efficiency (Lm/W)	Luminous Flux (lm)				Lumen maintenance @ 100h @ Ta=25°C	Temp. @ Ta=25°C	Dimensions	Weight (kg)
					IP 30000K	IP 4000K	IP 5000K	IP 6000K				
ENRMLU	30W	36	300mA	130 lm/W @ 25°C	4950	5268	5470	5873	100 F T10 100.000h	+5°C	640*330*60mm	6
			500mA	125 lm/W @ 25°C	7540	7958	7990	8183	100 F T10 100.000h	+5°C		
			700mA	120 lm/W @ 25°C	9630	9735	10000	10474	100 F T10 100.000h	+5°C		
			1000mA	115 lm/W @ 25°C	12560	12660	12847	13574	100 F T10 100.000h	+7°C		
	30W	5.4	300mA	130 lm/W @ 25°C	7426	7861	8106	8528	100 F T10 100.000h	+5°C	630*330*60mm	6
			500mA	125 lm/W @ 25°C	10730	11206	11825	12274	100 F T10 100.000h	+5°C		
			700mA	120 lm/W @ 25°C	13700	14057	15145	15710	100 F T10 100.000h	+5°C		
			1000mA	115 lm/W @ 25°C	18422	17474	18147	18820	100 F T10 100.000h	+7°C		
	30W	7.2	300mA	130 lm/W @ 25°C	10601	10935	11641	12185	100 F T10 100.000h	+5°C	710*330*60mm	11
			500mA	125 lm/W @ 25°C	14500	15130	15780	16350	100 F T10 100.000h	+5°C		
			700mA	120 lm/W @ 25°C	18278	18463	20128	20447	100 F T10 100.000h	+5°C		
			1000mA	115 lm/W @ 25°C	23800	23200	24135	25030	100 F T10 100.000h	+7°C		
1000mA	110 lm/W @ 25°C	28133	28743	27770	28633	100 F T10 100.000h	+8°C					

PRODUCT CONFIGURATOR

Model	Power	Reference (Number of Sinks)	Color CRI	Chipsets	Lens	Color cast	Control	Options
ENRMLU	30W	K30 (3 WLED 30 L202)	AMR2	S30	LRT10	BL	D-10V	<b>EXPRESO</b> Photoelectric control sensor INTEGRALED <b>PG-LAMBDA</b> General surge protection device 20kV INTEGRALED <b>PG-20K</b> External surge protection device 20kV INTEGRALED <b>DM</b> Digital Addressable Lighting Interface Control of lighting and effects of the stage <b>HC</b> No control <b>PWM</b> Pulse Width Modulation <b>TRAC</b> Triac Regulation System <b>TRAC</b> Triac for Alternating Current
	130W		AMR2	S30	LRT10	BL	D-10V	
	30W	K30 (3 WLED 54 L202)	AMB	S30	LRT11	BL	CLD	
	130W		AMB	S30	LRT11	BL	CLD	
	30W	K40 (3 WLED 72 L202)	CW	S40	LRT13	WH	CTLED0	
	130W		CW	S40	LRT13	WH	CTLED0	
	30W	K40 (3 WLED 72 L202)	FW	S40	LRT13	WH	CTLED0-SD	
	130W		FW	S40	LRT13	WH	CTLED0-SD	
	40W	K40	FW	S40	LRT13	WH	DALI	
	130W		FW	S40	LRT13	WH	DALI	
	60W	K60	FW	S60	LRT13	WH	DM	
	130W		FW	S60	LRT13	WH	DM	
60W	K60	WW	S60	LRT13	WH	DM		
130W		WW	S60	LRT13	WH	DM		
60W	K60	WW	S60	LRT13	WH	DM		
130W		WW	S60	LRT13	WH	DM		

LIGHT DISTRIBUTION IMAGE



ACCESSORIES



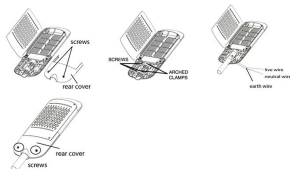
OPTIONAL

- General surge protection device 10kV
- Programmable Timer for 0-10V Dimmable Led Driver
- Programmer for LED Drivers and Intelligent Controllers

PRODUCT DIMENSIONS



MOUNTING INSTRUCTIONS



Step 1. Loosen the 2 screws at the rear cover, then remove the rear cover.  
 Step 2. Loosen the 4 screws on the 2 arched clamps, insert and fix the cross arm under the 2 arched clamps, and then tighten the 4 screws.

Step 3. Connect the wires to the AC wires. (The earth wire should be reliable and linked to the earth wire)

ground).

Step 4. Fix the rear cover back to the lamp and tighten the 2 screws on it.



1. Adjusting the lamp direction before locking screws.
2. All screws must be locked, to prevent loss or rotation.
3. The bare wires should be insulated to prevent short circuits.
4. Ground line must be grounded to prevent leakage accidents.

## PACKING SPECIFICATIONS

Model	Qty/Case	Length (mm)	Width (mm)	Height (mm)	Case Weight (kg/Case)
ENLUG-M09W02	5	600	300	140	9
ENLUG-M09W03	5	600	300	140	9
ENLUG-M09W02	5	600	300	140	9
ENLUG-M09W02	5	600	300	140	9
ENLUG-M120W02	5	600	300	140	9
ENLUG-M09W03	5	700	400	170	10
ENLUG-M09W02	5	700	400	170	10
ENLUG-M120W02	5	700	400	170	10
ENLUG-M120W02	5	700	400	170	10
ENLUG-M09W03	5	700	400	170	10
ENLUG-M09W03	5	700	400	170	10
ENLUG-M120W04	5	810	400	170	11
ENLUG-M120W04	5	810	400	170	11
ENLUG-M09W04	5	810	400	170	11
ENLUG-M09W04	5	810	400	170	11

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