



PRODUCT FEATURES

1. 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: Classic urban
 Product Model: VA
 Series Reference: EIC/VA
 Warranty: 5 years
 Lifespan @ Ta=25°C: L70 - L80 F10 100.000 h
 Lifespan @ Ta=40°C: L70 - L80 F10 60.000 h

Electric Specifications

Voltage (V): 80-265V 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): 120-130 lm/W ±10%
 Color Render Index (CRI >Ra): 80
 Controlled 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

Index of protection (IP): IP66
 Optical Compartment Lightness (IP): IP66
 Impact Resistance (IK): IK10
 Surge Protection: Basic: 4kV/Extended: 10kV

PCB

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

LED

Brand: PHILIPS
 Type: SMD
 Model: S050
 Max. Luminous Efficacy (lm/W): 150 lm/W

Driver

Brand: Inventronics
 Series Type: EUC130, Other series optional
 Internal or External: External
 Isolated or Not: Isolated
 IP: IP67
 Lifespan @ Ta=40°C: 100.000 h
 Surge Protection: 4 kV, 10kV
 Overload and Short Circuit Protection: Yes
 Thermal Feedback Control: Optional

HeatSink

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

APPLICATION

- Parks
- Lighting of avenues
- Streets
- Roundabouts
- Squares

**Application Conditions**

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

Control And Communication

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

Installation And Maintenance

Type: Top fitting
 Fitting To Existing Pole: Yes
 System: Fitting to existing pole
 Vertical Angle Adjustment: No
 Mounting Height: 4-8M
 Horizontal Angle Adjustment: No
 Replaceable Light Source: Yes
 Replaceable Driver: Yes
 Replaceable Lens: Yes
 Replaceable Cover: Yes
 Heating Opening System: Stainless steel screws
 Wire Connectors System: Waterproof quick Threaded fastener

Housing

Body Material: Aluminium finished
 Finishing: Aluminium
 Color:RAL: Black
 Cover Material: PC,Lensa
 Cover Type: Clear
 Locking System: Stainless steel screws

Optical

Lens Material: PC

Wire Connection

Cable Material: 3*1,0mm² rubber with cold-pressed terminal
 Connectors System: Waterproof threaded quick connector
 Waterproof Connectors: Yes

Matters Need Attention

- Matters need attention:
1. Before use, should carefully read the instructions. To avoid accidents and damage.
 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.

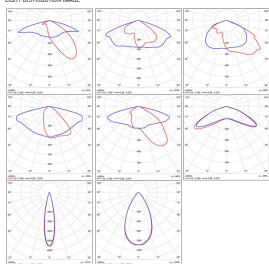
PRODUCT PARAMETERS

Reference	Typical Power	H ¹ (mm)	Diameter (mm)	System Efficiency (lm/W)	Equivalent Flux Light				System Performance @ T _a =25°C		System Class	Height (m)
					IP 10000h	IP 30000h	IP 50000h	IP 100000h	10000h	100000h		
ENYVA	20W	1.2	80mm	130 lm/W ±20%	3475	2634	2735	2827	180 F10 100.000h	+62°C	750°430mm	6
	30W		100mm	125 lm/W ±20%	3870	2760	2645	4061	180 F10 100.000h	+68°C		
	40W		130mm	120 lm/W ±20%	4570	4862	5053	5237	180 F10 100.000h	+70°C		
	20W	1.6	70mm	120lm/W ±20%	3050	3960	4042	4184	180 F10 100.000h	+62°C		
	30W		100mm	125 lm/W ±20%	4740	5060	5263	5355	180 F10 100.000h	+68°C		
	40W		130mm	123lm/W ±20%	5700	6120	6286	6465	180 F10 100.000h	+68°C		
	20W	2.4	60mm	130 lm/W ±20%	4490	5268	5470	5673	180 F10 100.000h	+62°C		
	30W		80mm	127lm/W ±20%	6545	6433	6683	6638	180 F10 100.000h	+62°C		
	40W		100mm	125 lm/W ±20%	7140	7598	7690	8140	180 F10 100.000h	+68°C		
	20W	3.2	70mm	120lm/W ±20%	7112	7786	8079	8379	180 F10 100.000h	+62°C		
	30W		100mm	125 lm/W ±20%	9530	10330	10530	10940	180 F10 100.000h	+68°C		
	40W		130mm	123lm/W ±20%	11020	12057	12226	12651	180 F10 100.000h	+70°C		

PRODUCT CONFIGURATOR

Light	Power	Color CCT	Voltage	Beam	Control	Accessories
ENYVA	10W	4000K	120V	LBT1	0-80V	ESP001 Photoelectric control sensor MITSUBA/TCO PW-1000K00V External surge protection device 10kV MITSUBA/TCO PW-50K External surge protection device 50kV MITSUBA/TCO
	20W	4000K	120V-120V	LBT2	CLR	
	30W	4000K	120V-240V	LBT2	CLR	
	40W	4000K	120V-240V	LBT2	CLR	
	40W	4000K	120V-240V	LBT2	CLR	
	40W	4000K	120V-240V	LBT2	CLR	
	40W	4000K	120V-240V	LBT2	CLR	
	40W	4000K	120V-240V	LBT2	CLR	
	40W	4000K	120V-240V	LBT2	CLR	
	40W	4000K	120V-240V	LBT2	CLR	

LIGHT DISTRIBUTION IMAGE



ACCESSORIES



OPTIONAL

- Custom Light Output (LLO)
- Remote dimming system (Dim)
- External Surge protection device 10kV
- Color: Grey/Black

PRODUCT DIMENSIONS



MOUNTING INSTRUCTIONS



- Step1. Open the upper cover.
 Step2. Adjust the width of the supporting plate which carries the module and the driver.
 Step3. Fix the power line and put the supporting plate on the square set.
 Step4. Tighten up the supporting plate on the square set with 4 butterfly screws.
 Step5. Connect the power line. The earth wire should be grounded.



- Adjusting the lamp direction before locking screws.
- Pole screws must be locked, to prevent loss or rotation.
- The bare wires should be insulated to prevent short circuits.
- Zero line must be grounded to prevent leakage accidents.

PACKING SPECIFICATIONS

Model	Pcs/Case	Long (mm)	Width (mm)	Height (mm)	Gross Weight (kg/Case)
ENCLM00W02	1	500	150	800	7
ENCLM00W03	1	500	150	800	7
ENCLM00W04	1	500	150	800	7
ENCLM00K05	1	500	150	800	7
ENCLM00K06	1	500	150	800	7
ENCLM00W06	1	500	150	800	7
ENCLM00K04	1	500	150	800	7
ENCLM00K04	1	500	150	800	7
ENCLM00K04	1	500	150	800	7
ENCLM00K02	1	500	150	800	7
ENCLM00W03	1	500	150	800	7
ENCLM00W03	1	500	150	800	7

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