



Black Grey Series



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: Classic urban
 Product Model: FA
 Series Reference: EXCFA
 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

Optical Compartment Tightness (IP): IP68
 Auxiliary Compartment Tightness (IP): IP68
 Impact Resistance (IK): IK08
 Surge Protection: Basic: 6kV/Extended: 10kV

Application Conditions

T1 Temperature (T1 °C): <40°C @ Ta=25°C
 T2 Temperature (T2 °C): <50°C @ Ta=25°C
 Storage Temperature (T3): <40°C +55°C
 Operating Temperature (T4): <40°C +50°C
 Operating Humidity (RH%): 5-95%RH

Control And Communication

Constant Light Output (CLO): Optional
 Scheduled 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

PCB

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

LED

Brand: Philips, Lumileds
 Type: SMD
 Model: S050
 Max. Luminous Efficacy (lm/W): 150 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, 10kV
 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 finished
 Finishing: Aluminium
 Color RAL: Black, Grey, Satin
 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: 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.

APPLICATION

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



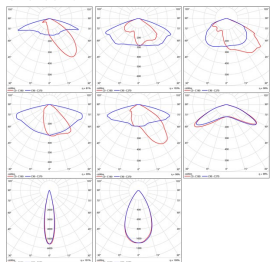
PRODUCT PARAMETERS

Reference	System Power	W LED	Control DALI	System Efficiency (Lm/W)	Luminous Flux (lm)				Lumen maintenance @ Ta=25°C	T _{amb} 25°C	Dimensions
					IP 3000K	IP 4000K	IP 5000K	IP 6000K			
EUCFA	20W	32	80lmk	120 lm/W ±10%	2470	2600	2730	2860	LM8 F10 100-000h	<90°C	880*100mm
					2580	2750	2880	3010	LM8 F10 100-000h	<90°C	
					2940	3080	3210	3340	LM8 F10 100-000h	<70°C	
	30W	36	70lmk	120 lm/W ±10%	2640	2840	2970	3100	LM8 F10 100-000h	<90°C	
					3000	3200	3330	3460	LM8 F10 100-000h	<90°C	
					3360	3560	3690	3820	LM8 F10 100-000h	<90°C	
	40W	44	60lmk	120 lm/W ±10%	3540	3840	3970	4270	LM8 F10 100-000h	<90°C	
					4080	4380	4510	4810	LM8 F10 100-000h	<90°C	
					4620	4920	5050	5350	LM8 F10 100-000h	<70°C	
	60W	66	40lmk	120 lm/W ±10%	5040	5340	5470	5770	LM8 F10 100-000h	<90°C	
					5580	5880	6010	6310	LM8 F10 100-000h	<90°C	
					6120	6420	6550	6850	LM8 F10 100-000h	<90°C	
80W	88	30lmk	120 lm/W ±10%	7040	7340	7470	7770	LM8 F10 100-000h	<90°C		
				7580	7880	8010	8310	LM8 F10 100-000h	<90°C		
				8120	8420	8550	8850	LM8 F10 100-000h	<90°C		
100W	110	20lmk	120 lm/W ±10%	9040	9340	9470	9770	LM8 F10 100-000h	<90°C		
				9580	9880	10010	10310	LM8 F10 100-000h	<90°C		
				10120	10420	10550	10850	LM8 F10 100-000h	<70°C		

PRODUCT CONFIGURATOR

Light	Power	Color CCT	Temp	Beam	Color Bin	Control	Options	
EUCFA	30W	AMB2	130	LET1	BK	0-LDV	EXPEC01	
	30W	2550K	1050-1200	Asymmetric distribution 1	Black	Dimming 0-10V	Photoelectric control sensor HFCGRAT3	
	30W	AMB	540	LET2	GR	CLD	PU-1LMB040W	
	30W	1750K	3000-3400	Asymmetric distribution 2	Grey	Custom Light Output	External surge protection device 20W HFCGRAT3	
	40W	CW	005	LET3		CT1000	PU-SUR	
	40W	6000K	1700-3050	Asymmetric distribution 3		0-10V/0-10V/PMW/Timer	External surge protection device 20W HFCGRAT3	
	40W	HW	0000	LET4		CT1000-010	External surge protection device 20W HFCGRAT3	
	40W	4000K	2600-3200	Asymmetric distribution 4		0-10V/PMW/Timer		
	60W	PW	3000K	000	LET5		DALI	
	60W	3000K	3000-3050	Asymmetric distribution 5		Digital Addressable Lighting Interface		
60W	WW	2000K	LET6		INDEL3	Control lighting and effects of the stage		
60W	2000K		Asymmetric distribution 6		No control			
60W			LET7		RC	No control		
60W			Asymmetric distribution 7		PWM	Pulse Width Modulation		
60W			LET8		Timer	Time Regulation System		
60W			Asymmetric distribution 8		VRAC	Triode for Alternating Current		

LIGHT DISTRIBUTION IMAGE



ACCESSORIES



OPTIONAL

- Custom Light Output (CLD)
- External dimming control (Timer)
- External Surge protection device 20W
- Color: Grey/Black

PRODUCT DIMENSIONS



MOUNTING INSTRUCTIONS



Step1: Open the upper cover.

- Step2. Put the supporting plate with module and driver onto upper cover.
 Step3. Tighten up the supporting plate with 4 screws.
 Step4. Close the upper cover and fix with screws.
 Step5. Connect the power line. The earth wire should be grounded.



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)	Volume Weight (kg/Case)
CLASSIC FA	1	500	500	500	11,7
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CLASSIC FA	1	500	500	500	11,7
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