



#### PRODUCT FEATURES

1. Connectable technology, ease of maintenance.
2. Cell technology of low cooling and high thermal conductivity. The structure allows fast chip cooling, high heat conduction efficiency and high thermal dissipation performance.
3. Led-by-pass technology: If a led is damaged, it will not affect the rest, nor will it increase its operating current.
4. Driver with intelligent technology of constant current, output of stable current, intelligent unit with numerous options, the light can be adjusted automatically by the system of regulation time.
5. Degree of protection of the optical black IP68 and IK10, high level of protection against water and impacts.
6. Constant flux emission system (CLO), uniform distribution of light over time.

#### PRODUCT ICONS FEATURE



**General Information**

Product Range: Outdoor  
 Product Family: ATEX  
 Product Model: Explosion Proof Light  
 Series Reference: EXEP  
 Warranty: 5 years  
 Lifespan @ Ta=25°C: L70 - L85 F10 100.000 h  
 Lifespan @ Ta=40°C: L70 - L85 F10 60.000 h

**Electric Specifications**

Voltage (V): 100-277VAC  
 Frequency (Hz): 50-60 Hz  
 Power Factor (PF): >0.98  
 Power Efficiency (PE %): >90%  
 Flicker (%): 0%  
 Total Harmonic Distortion (THD %): <20%  
 Protection Class: II

**Light Specifications**

System Luminous Efficacy (lm/W): 100-105 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: 120°  
 Upper Light Output Ratio (ULOR %): 0%

**Protection Specifications**

Explosion Proof: I 2G Ex ib IIA T4 Gb, II 2G Ex ib IIC 1/30°C Db  
 Optical Compartment Tightness (IP): IP67  
 Auxiliary Compartment Tightness (IP): IP67  
 Impact Resistance (IK): IK10  
 Surge Protection: Basic: 4kV/Extended: 10kV

**Application Conditions**

T1 Temperature (°C): -20°C to +25°C  
 T2 Temperature (°C): -10°C to +25°C @ Ta=25°C  
 Storage Temperature (°C): -40°C to +55°C  
 Operating Temperature (°C): -40°C to +50°C  
 Operating Humidity (%RH): 5-95%RH

**Control And Communication**

Constant Light Output (CL/O): Optional  
 Scheduling Dimming System: 8 weeks steps, Optional  
 Dimming Function: PWM, 1-10V DALI (optional)  
 Other Sensors Options: Photoelectric, Movement, Other  
 Wireless Communications Compatibility: Yes

**Installation And Maintenance**

Type: Fixing to surface  
 Fixing To Existing Pole: No  
 System: 01 type bracket (02 optional)  
 Vertical Angle Adjustment: Yes  
 Mounting Height: 4-12M  
 Horizontal Angle Adjustment: Yes  
 Replaceable Light Source: No  
 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: Bridgelux  
 Type: 45mm

**Driver**

Brand: Meanel  
 Series Type: 942  
 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  
 Fins Material: Aluminium  
 Extra Cooling System: The whole structure of radiation

**Housing**

Body Material: Aluminium alloy  
 Finishing: Aluminium  
 Color: RAL Grey, Black, Green, Yellow  
 Cover Material: Tempered glass  
 Cover Type: Clear  
 Locking System: Stainless steel screws

**Optical**

Lens Material: PC  
 Reflector Material: Aluminium  
 Diffuser Material: Tempered glass

**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 damages.
- Please wear glasses to avoid injury before installation work.
- Lighting installation, and wiring work must be carried out in the absence of power.
- Power line joints must do insulation, waterproofing treatment.
- Do not look directly at the light emitting LED lighting in close distance, ensure not hurt the eyes.

**APPLICATION**

- Factories
- Lighting of explosion-risk zones: mines
- Hydrocarbons logistics centers
- Industrial

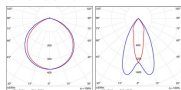
**PRODUCT PARAMETERS**

Model	Power (W)	IP	Current (mA)	System Efficacy (lm/W)	Dimensions (mm)				Light Intensity (lx @ 1m)	C.C. @ Ta=25°C	Dimensions (mm)	Weight (kg)
					IP 55mmx60	IP 60mmx60	IP 65mmx60	IP 65mmx65				
EXEP	45W	24	900mA	100 lm/W ±10%	2600	4952	4308	4764	L70 F10 100.000h	+10°C	200*200*170mm	4.3
	60W	30	1050mA	100 lm/W ±10%	3680	6382	6028	6572	L85 F10 100.000h	+10°C	300*300*170mm	6.4
	80W	40	1400mA	100 lm/W ±10%	7620	8204	8424	8728	L70 F10 100.000h	+10°C		
	100W	50	1750mA		8020	11120	10520	10920	L85 F10 100.000h	+10°C	400*400*190mm	12.3
	120W	60	2100mA		11420	12120	12620	13060	L85 F10 100.000h	+10°C		
	150W	75	2625mA	100 lm/W ±10%	14804	15900	16608	17300	L85 F10 100.000h	+10°C		
180W	90	3150mA	100 lm/W ±10%	17822	18744	19462	20184	L85 F10 100.000h	+10°C			

**PRODUCT CONFIGURATOR**

Model	Power	Current (mA)	Voltage	Beam	Beam dia	Control	Options
EXEP	100W	AMB2	120V	LH10	ØK	1-10V	EMERDOL
	120W	AMB2	120V	LH10	ØK	0-10V	Photoelectric control sensor NETSMART
	120W	AMB	240V	LH10	ØK	CL0	Constant Light Output
	100W	EW	100V	LH10	ØK	DALI	Digital Addressable Lighting Interface
	40W	WV	100V	LH10	ØK	W	No control
	60W	WV	100V	LH10	ØK	PT	Photocell sensor
	WV	100V	LH10	ØK	PWM	Pulse Width Modulation	
	WV	100V	LH10	ØK	TR	Time Regulation System	

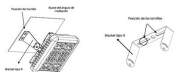
## LIGHT DISTRIBUTION IMAGE



## PRODUCT DIMENSIONS



## MOUNTING INSTRUCTIONS



1. Hold the U or R type bracket in the mounting position.
2. Mark the two positions of the screw with a pencil or other tools on the wall.
3. Drill in the designated area.
4. Install the U or R type bracket, tighten the screws.
5. Connect the three input cables of the luminaire and the power cables.
6. Adjust the fixing screw of the parts, place the luminaire with a suitable projection angle.

## PACKING SPECIFICATIONS

Model	Pack Size	Length (mm)	Width (mm)	Height (mm)	Gross Weight (kg/pcs)
EXP40W34	1	360	200	200	4.5
EXP70W50	1	370	270	240	9.5
EXP90W60	1	370	270	240	9.5
EXP120W90	1	460	460	240	12.5
EXP120W90	1	460	460	240	12.5
EXP150W144	1	460	460	240	12.5
EXP180W120	1	460	460	240	12.5

## MATTERS NEED ATTENTION



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## ACCESSORIES

Accessories	Name	Description
EXP70W50	Wall or bracket for ATEX light	
EXP70W50	Flushing wall bracket for ATEX light	
EXP70W50	Hook bracket for ATEX light	
EXP70W50	Decoupled kit for ATEX light	

## ACCESSORIES

