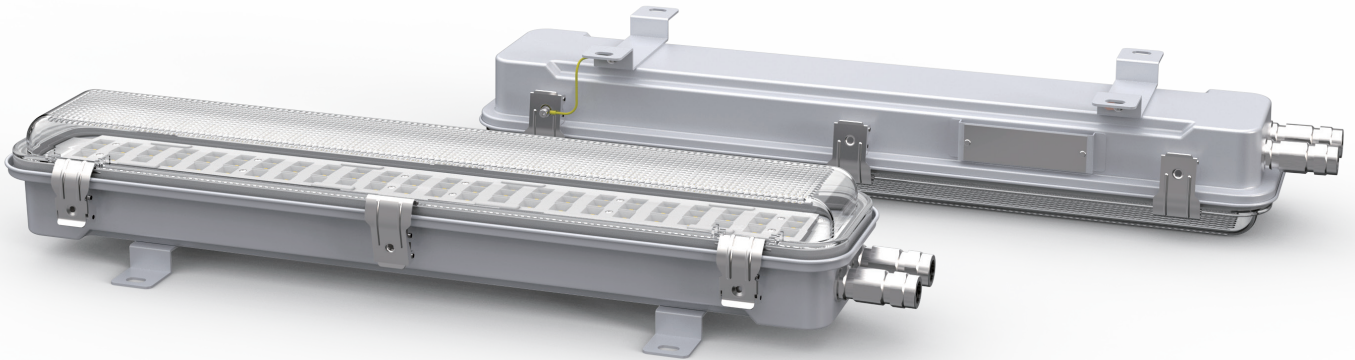


LUMEV.

LED LIGHTING



TPLNX Series
LED Explosion-proof Light



LED Explosion-proof Light

▪ Explosion-proof structure description

- The explosion-proof light adopts increased safety explosion-proof enclosure, which is composed of stainless steel stretch bottom shell, PC lamp shade and stainless steel buckle;
- UV resistance PC lamp shade has good impact resistance performance;
- The internal of lamp adopts Ex LED module, Ex driver power supply and Ex emergency power supply;
- Customers can choose to have uncover power-off switch inside the lamp (setting Ex power-off switch inside the lamp) to increase product safety.
- ATEX certified cable glands or stopping plugs must be applied, rated minimum IP66, suitable for the conditions of use and correctly installed.

▪ Standard

- IEC60079-0:2017, IEC60079-1:2014, IEC60079-7:2017,
- IEC60079-18:2017, IEC60079-31:2022
- EN IEC60079-0:2018 , EN 60079-1:2014 , EN 60079-7:2015,
- EN IEC 60079-7:2015/A1:2018
- EN 60079-18:2015, EN 60079-18:2015/A1:2017 , EN 60079-31:2014;
- GB/T 3836.1-2021, GB/T 3836.2-2021, GB/T 3836.3-2021,
- GB/T 3836.9-2021, GB/T 3836.31-2021

▪ Certificate

- ATEX Certificate NO. : CNEX 25 ATEX 0020 X
- CNEx Certificate NO.: CMExC24.1414X

▪ Ex Marking

- Ⓔ II 2G Ex db eb mb IIC T6 Gb,
- Ⓔ II 2D Ex tb IIIC T80°C Db;
- Ⓔ II 2G Ex db eb mb IIC T5 Gb,
- Ⓔ II 2D Ex tb IIIC T95°C Db

Remark: When there is no uncover power-off switch, the Ex marking does not include the "db" marking;

▪ Scope of application

- It is mainly used for Low-canopy site lighting in explosive hazardous environment.
- The places where combustible gas of zone 1 and zone 2 in explosive gas environment or explosive mixtures of steam and air, or zone 21 and 22 combustible dust explosive hazardous environment.

▪ Normal working conditions

- Ambient temperature range: $-40^{\circ}\text{C} \sim +40^{\circ}\text{C}/+55^{\circ}\text{C}$
- Relevant humidity: $5\% \sim 95\%$ ($+25^{\circ}\text{C}$) .
- Atmospheric pressure: $80\text{kPa} \sim 110\text{kPa}$.
- In areas without significant shaking and shock vibrations.
- In environment without damaging insulation gas or steam.
- Pollution level: Level 3.
- Installation category: Class II.

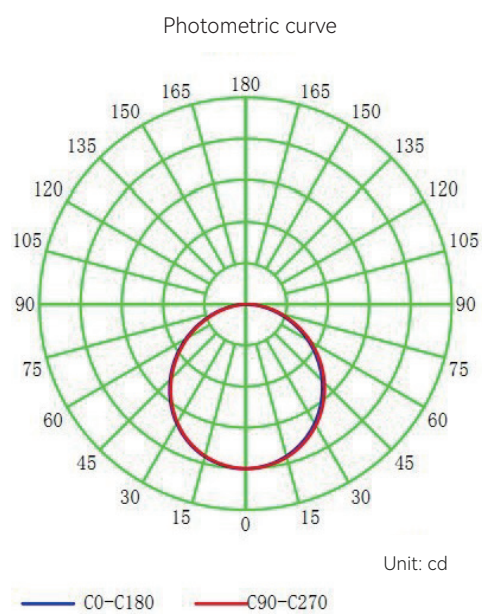
▪ Technical Parameters

Product name	TPLNX series LED Explosion-proof Light
Power	20W、30W、40W、60W
Voltage	AC110-277V , 50/60 Hz
PF	≥ 0.9
CCT	3500K ~6500K
Ra	> 80
Corrosion-proof level	WF2
Protection level	IP66

Technical parameters of battery emergency function

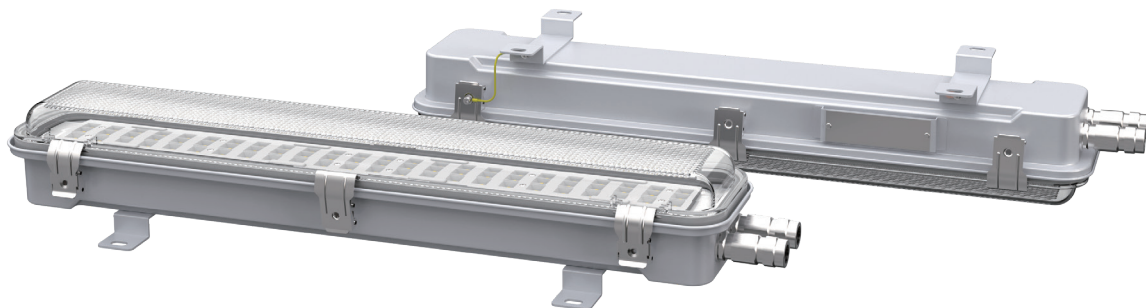
Battery pack Type	Ni-cd	LiFePO		
Battery pack model	KRH26/51(C)3000TX3	YH-BP-IRF-9.6/3.5Ah-A/B		
Battery pack manufacturer	Yuheng Technology Development (Dalian) Co., Ltd.			
Voltage and capacity	3.6V-3.0Ah	9.6V-3.5Ah		
Emergency power	3.5W	7W	10W	15W
Emergency time	≥180min	≥180min	≥120min	≥90min

▪ Light Distribution Curve



▪ Product display

- 20W/30W/40W

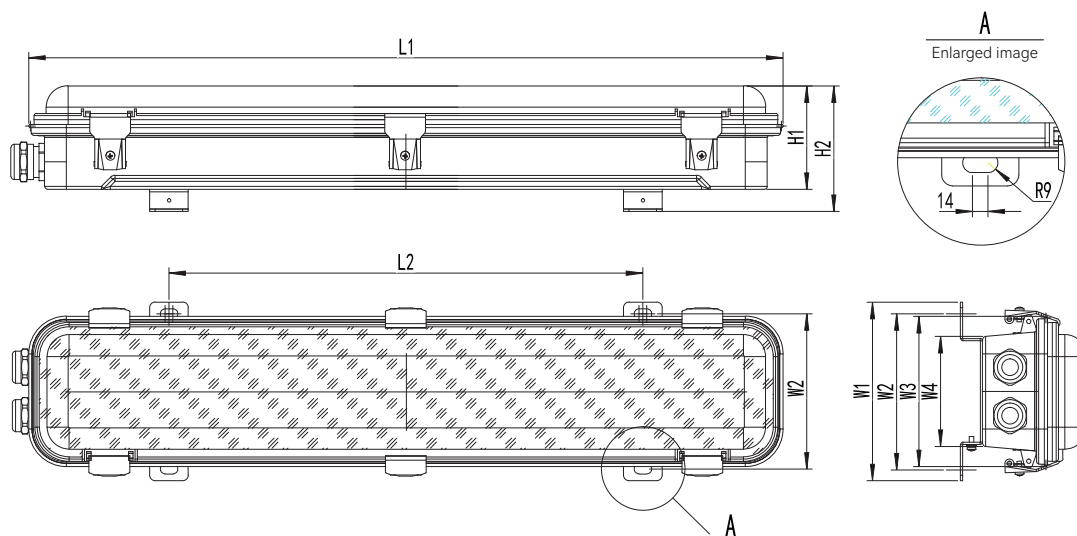


- 40W/60W



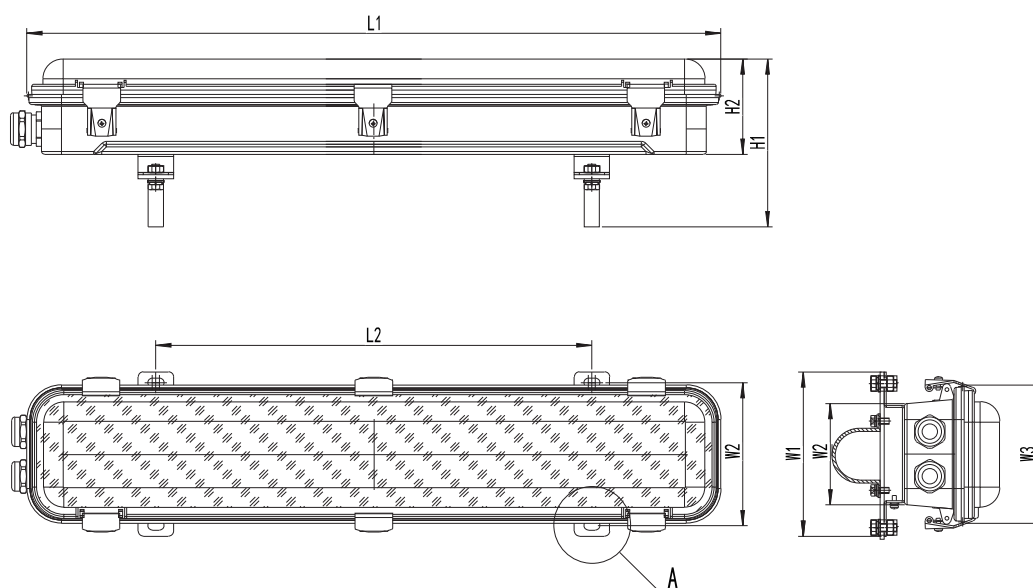
▪ Dimensions and installation elements

- Surface fixed installation (Unit: mm)



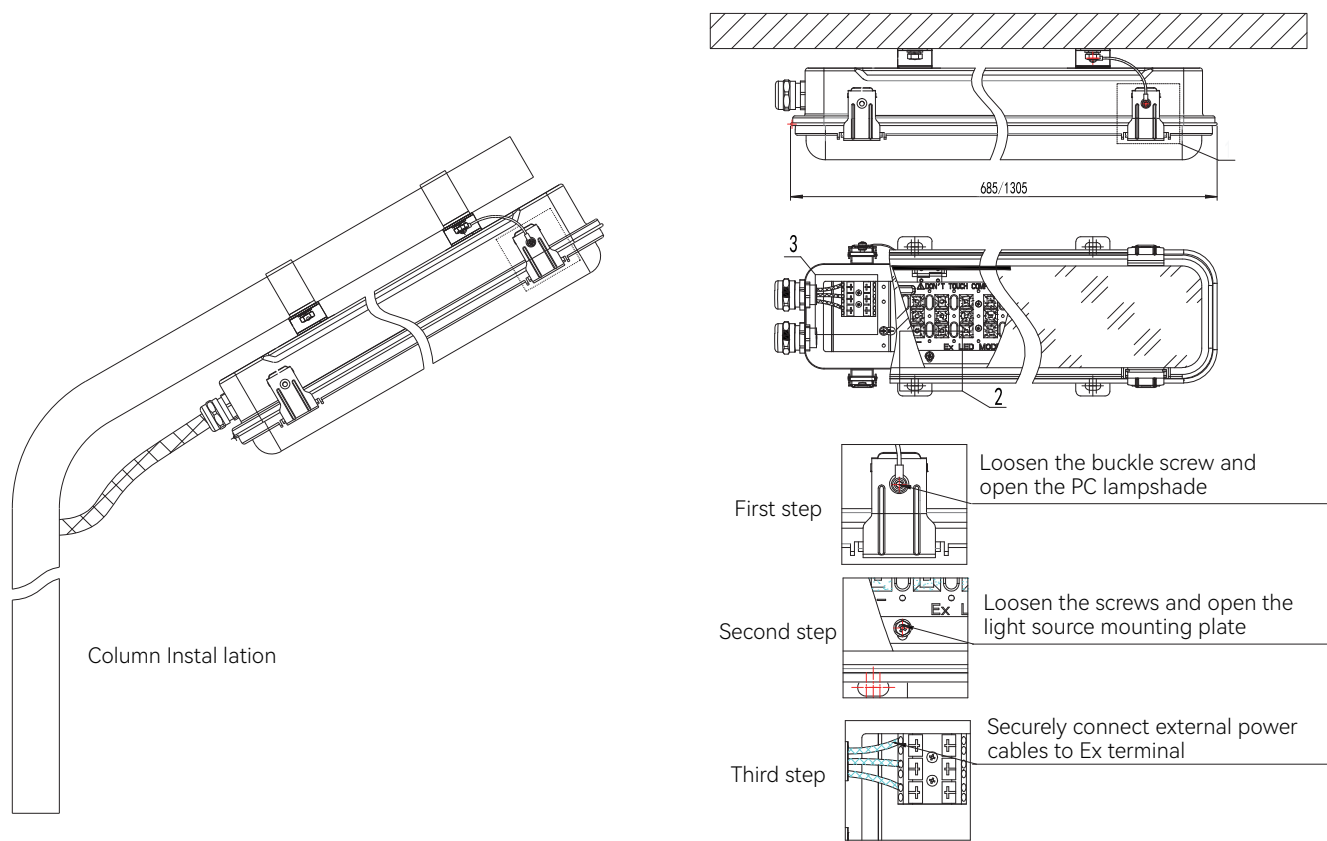
	L1	L2	W1	W2	W3	W4	H1	H2
20W/30W/40W	685	430	162	142	136	100	94	114
40W/60W	1305	970						

- Column installation (φ40、φ48、φ60 mm)

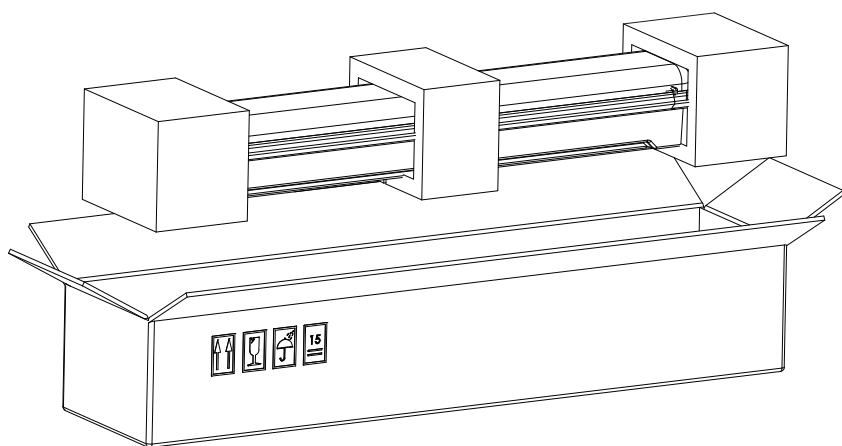


	L1	L2	W1	W2	W3	W4	H1	H2
20W/30W/40W	685	430	162	100	136	100	157 (φ40)	94
40W/60W	1305	970					165 (φ48) 177 (φ60)	

Installation Diagram



Packing Information



Power	Net Weight	Packing Size	Quantity / Box	Gross Weight
20W/30W/40W	≈2.6Kg	840mm X 200mm X 150mm	1	≈3.0Kg
40W/60W	≈4.5Kg	1400mm X 200mm X 150mm	1	≈5.2Kg