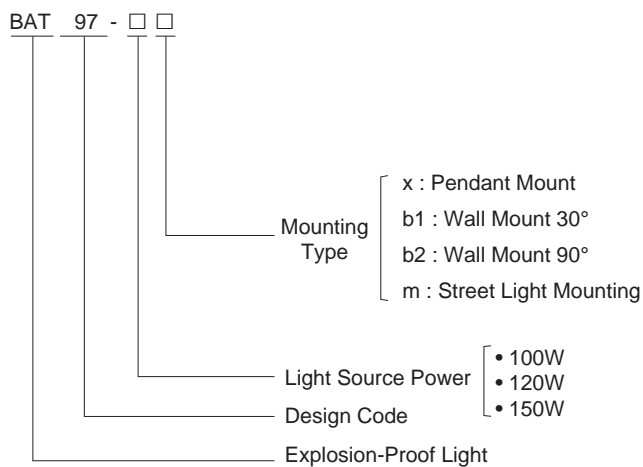


### Applications

- Widely used for long-distance illumination in hazardous environments such as oil exploration, petroleum refining, chemical plants, offshore oil platforms, and marine vessels.
- Suitable for energy-saving retrofit projects and locations where maintenance or lamp replacement is difficult.
- Ideal for environments containing corrosive gases, high humidity, and demanding protection requirements.
- Suitable for hazardous areas classified as Zone 1 and Zone 2.
- Applicable to Group IIA, IIB, and IIC explosive gas atmospheres.
- Suitable for temperature classes T1–T3 (T4 optional).
- Optional stainless steel protective guard is available upon customer request.



### Model Designation



### Product Specifications

Model	Rated Power	Luminous Flux (lm)
BAT84-LED100□□	100W	9300
BAT84-LED120□□	120W	10800
BAT84-LED140□□	140W	12900

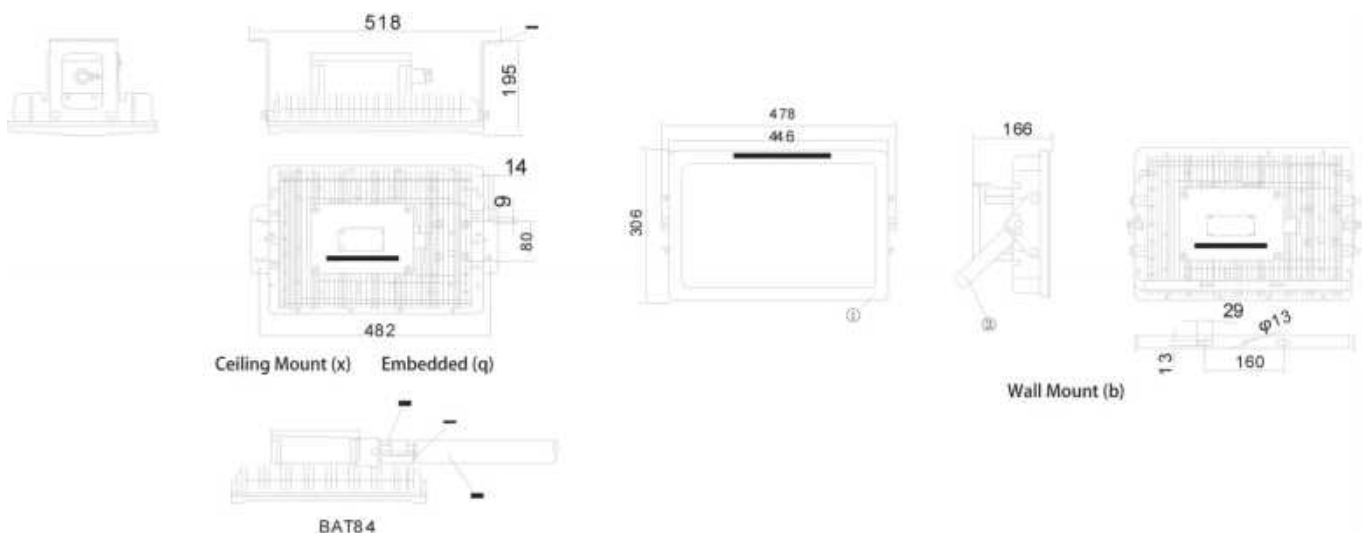
### Technical Parameters

Explosion Protection	Exd II CT4 Gb	Color Temperature	5500K
Rated Voltage	AC220V 50 Hz	Color Rendering Index	Ra > 70
Light Source	LED	Protection Grade	IP65
Luminous Efficiency	> 90lm/W	Anti-Corrosion Grade	WF1\WF2
Power Factor	> 0.9	Standards	GB3836.1, GB3836.2, IEC 60079-0, IEC 60079-1, EN 60079-0, EN 60079-1
Cable Entry	G3/4	Terminal Type	Up to 4 mm <sup>2</sup> conductors
Applicable Cable Diameter	Φ10 mm ~ Φ14 mm	Mounting Type	Bracket Mount

## Product Features

- Die-cast aluminum alloy housing with high-voltage electrostatic powder coating for excellent corrosion resistance and durability.
- Exposed fasteners are made of high-grade stainless steel for enhanced corrosion protection.
- Separate light source chamber and driver chamber design effectively prevents heat generated by the LED module from affecting the power supply.
- Special constant-current, constant-voltage LED driver with wide voltage input, high power factor ( $PF \geq 0.98$ ), and multiple protection functions including over-voltage, over-current, leakage, open-circuit, and short-circuit protection. Anti-EMI design ensures stable operation and fast startup.
- High-strength tempered glass cover provides excellent impact resistance, heat shock resistance, and high light transmittance.
- Professionally designed optical system delivers optimized light distribution, uniform illumination, high reflector efficiency, and excellent light utilization.
- Adjustable beam angle from  $45^\circ$  to  $90^\circ$  to meet different lighting requirements.
- Special aluminum heat dissipation structure ensures efficient transfer of heat generated by the LED light source directly to the heat sink.
- Steel conduit wiring, G3/4" cable entry.
- Equipped with imported high-power LED modules featuring optimized arrangement and directional light output. Delivers soft, uniform illumination with luminous efficacy exceeding 100 lm/W, excellent color rendering ( $Ra > 80$ ), long service life of up to 50,000 hours, and environmentally friendly operation.
- Internal air convection cooling design effectively dissipates heat from the light source chamber, ensuring long-term reliable operation.
- Multiple mounting options available, including wall mount, ceiling mount, base mount, and street-light mounting configurations.

## Outline & Mounting Dimensions



## Ordering Information

- Select the required model and specifications according to the product designation and clearly specify the explosion-proof marking when ordering. Example: For a 100W Explosion-Proof LED Floodlight, the model designation is BAT84-LED100.
- The luminaire is supplied complete with the LED light source.
- Suitable for base mounting, ceiling mounting, wall mounting, and can also be used as a street light fixture.
- Please specify any special requirements when placing your order.