

WPM Series Modular LED Light



Products description and application

Applied to the internal lighting system of wind turbines (cabin, tower, nacelle). Applied to the auxiliary lighting for indoor environment.
Standard:: IEC61000-4\IEC60068-2\IEC60529\IEC62262\EN55015

Features



- Long lifetime LED source, energy saving and environmental protection.
- Soft light beam, no glare, no flicker.
- Spherical or elliptic light distribution curve.
- Wide input voltage .
- Electromagnetic compatibility.
- Constant current drive, maintenance-free.
- Meet emergency lighting application requirements.
- Suitable for extreme temperature.
- Light weight design, corrosion resistance, anti – aging.
- Shock resistance and vibration resistance.
- Modular design, each module can be freely combined to meet different application requirement.
- Multiple installation methods.

General Specifications

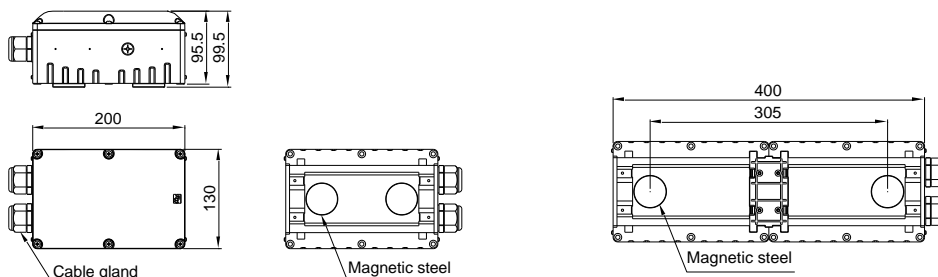
Electric parameter		Mechanical parameter	
Working voltage	100~264V AC / 24V DC	Housing	ABS+PC
Frequency	50Hz/60Hz	Cover	PC
Rated power	15W	IP	IEC60529 IP65
	18W (emergency)		IP54, IP44(with socket) for option
EMC	IEC61000-4-2 CLASS 4	Vibration	IEC60068-2-6 2G
	IEC61000-4-3 CLASS 3	Anti-corrosion	ISO9227 720H
	IEC61000-4-4 CLASS 4	Color	Hoary
	IEC61000-4-5 CLASS 4	Weight	1.0kg
	IEC61000-4-6 CLASS 3	Working temperature	-30°C ~ +50°C(emergency)
	EN55015		-40°C ~ +50°C(normal)
		Storage temperature	-40°C ~ +70°C
Wiring method	Cable gland/connector	Installation method	Magnet/Hoisting/Wall-mounting
Optical parameter			
Light source	LED	CRI	≥72
Lifetime of LED	≥50000h	Efficiency	100lm/W
Color temperature	Cold white:5500K~6000K	Luminous	1500lm

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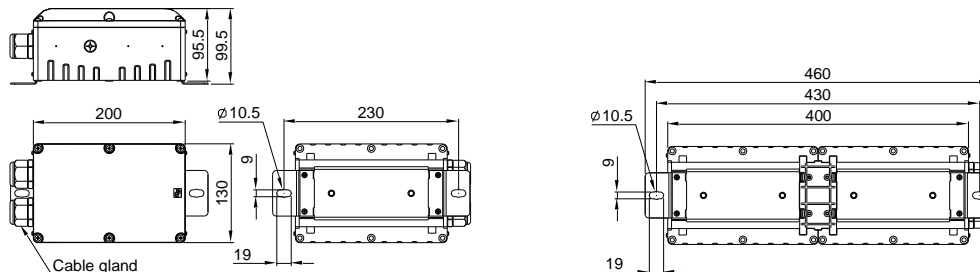


Mounting dimensions

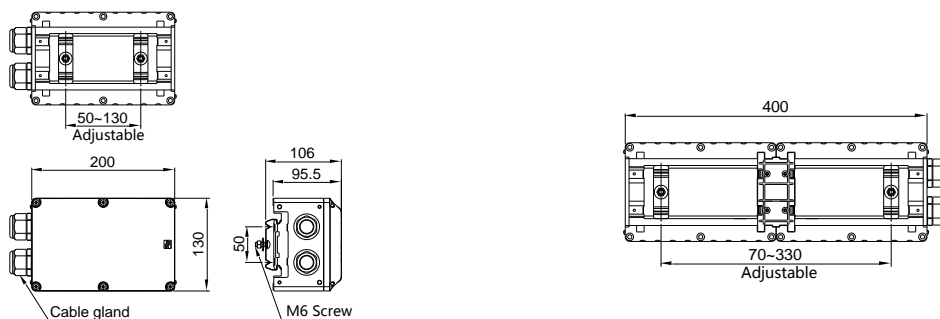
1. Magnetic mounting(unit:mm): Use magnet to fix lamp to the installation plane directly.



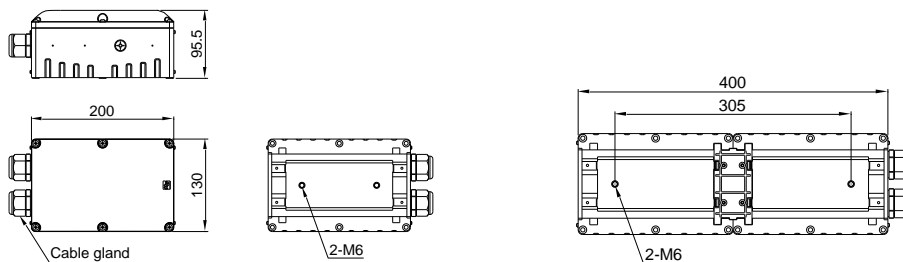
2.Fixed mounting(unit:mm): Fix the lamp to the plane with M8 or M10 bolts.



3.Adjustable mounting(unit:mm):Fix the elastic mounting support to the mounting plane with M6 screws, adjust the mounting spacing, then fix the lamp to the mounting support.



4.Direct mounting(unit:mm): Fix the lamp to the installation plane with M6 screws through the hole at the bottom of lamp.



Note: the picture on the left shows the installation size of a single module, and the picture on the right shows the installation size of the combination of two modules.

Note: the picture on the left shows the installation size of a single module, and the picture on the right shows the installation size after the combination of two modules. Multi - module mounting size accumulates successively.

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Selection table

1. Single light selection table

WPM- ① ② ③

① Voltage

A: AC100~264V

② Power

15: 15W

18: 18W(emergency)

③ Beam angle

C: 120°*120°

2. Junction box selection table

WPM- ①

① Function

E: Emergency

S1A: Junction box(with 230V socket)

S1B: Junction box(with 400V socket)

S: Rotary switch

3. Spare parts selection table

WPM- ①

① spare parts for mounting

PJ1: Magnetic mounting

PJ2: M8 fixed mounting

PJ3: M10 fixed mounting

PJ4: Adjustable mounting

PJ5: Direct mounting

PJ6: Combination parts


a. LED single light	b.Multifunctional junction box(for option)	c. Spare parts(mandatory)	d. Combination parts (for option)	Remark
WPM-A15C	WPM-E	WPM-PJ1	WPM-PJ6	a: single light, can work alone. b: for option c: spare parts for mounting, must be selected. d: parts used to combine two modules.if a&b are selected, d must be selected.
	WPM-S1A	WPM-PJ2		
	WPM-S1B	WPM-PJ3		
	/	WPM-PJ4		
		WPM-PJ5		
WPM-A18C	WPM-S1A	WPM-PJ1	WPM-PJ6	
	WPM-S1B	WPM-PJ2		
	/	WPM-PJ3		
		WPM-PJ4		
		WPM-PJ5		

Example:

WPM-A15C: WPM series LED lamp, AC100~264V, 15W, beam angle 120°*120°.

WPM-S1A: WPM series multifunctional junction box with 230V socket.

WPM-PJ1: WPM series spare parts for magnetic mounting.

Note: the type of junction box and installation method can be customized according to the customer's requirements, for further information, please contact us .

4.WPM series product diagram



WPM-A15C



WPM-A18C



WPM-E



WPM-S1A



WPM-S1B

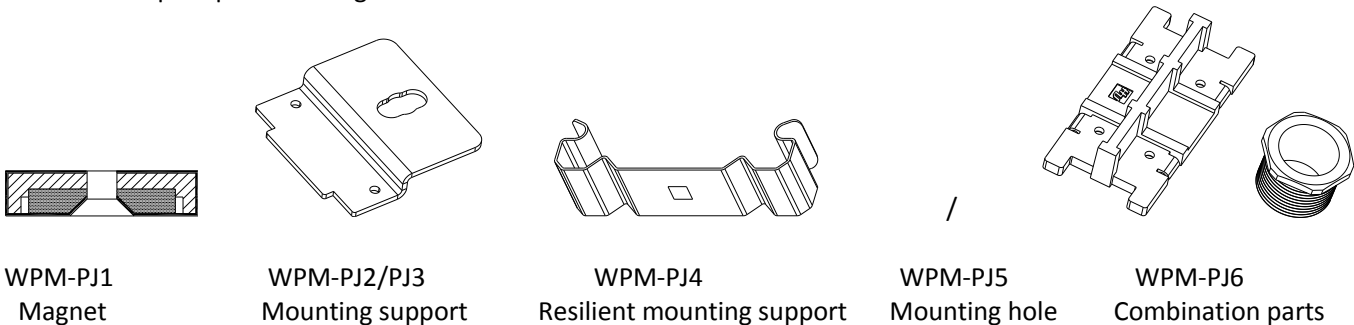
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5. WPM series spare parts list

Model	Mounting	Specification
WPM-PJ1	Magnetic mounting	Magnet and M6*20 mounting screw set
WPM-PJ2	M8 fixed mounting	Stainless steel mounting support and M8*25 mounting screw set
WPM-PJ3	M10 fixed mounting	Stainless steel mounting support and M10*25 mounting screw set
WPM-PJ4	Adjustable mounting	Resilient mounting support and M6*12 mounting screw set
WPM-PJ5	Direct mounting	M6*12 mounting screw set
WPM-PJ6	Combination parts	Splicing module and M25*1.5 mounting threaded tube set

WPM series spare parts list diagram



6. WPM series product diagram



Note: Other assembly requirement (such as multiple combinations or more outlet holes) can be customized, for further information, please contact us .

接线示意图 Wiring diagram

Model	WPM-A15C	WPM-A18C	WPM-A15C+WPM-A15C	WPM-A15C +WPM-E
Diagram				

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Model	WPM-A15C+WPM-S1A	WPM-A15C+WPM-S1B
Diagram		
Model	WPM-A18C+WPM-S1A	WPM-A18C+WPM-S1B
Diagram		
Model	WPM-A15C+WPM-E+WPM-S1A	WPM-A15C+WPM-E+WPM-S1B
Diagram		

Note: Make sure that the power supply voltage is consistent with the rated voltage of the lamp.

When wiring, check the cable color and label for correct access.

L1 and N input for normal lighting

L2 and N input for emergency lighting

L3 for standby

PE for grounding

L1: ON for normal lighting, OFF of L1 and L2 for emergency lighting.

Function of WPME emergency test switch:

1. Emergency indicator

Charging indicator (green): flash once when battery is lower than 80%, flash twice when battery is higher than 80%, keep green when it's full.

2. Fault indicator (red)

- Battery fails

- Flash continuously

- Insufficient battery capacity: red and green indicator lights flicker alternately

- Battery capacity: when the battery is full but can't work for 90 minutes for 5 times, it means the capacity of the battery is not enough. The red, green indicator flashes alternately. (The indicators will stop flashing after charging and discharging for the replacement).

3. Others

- During installation, verify whether the emergency function is normal (press the button and do not let go, L1 has power in non-emergency state).

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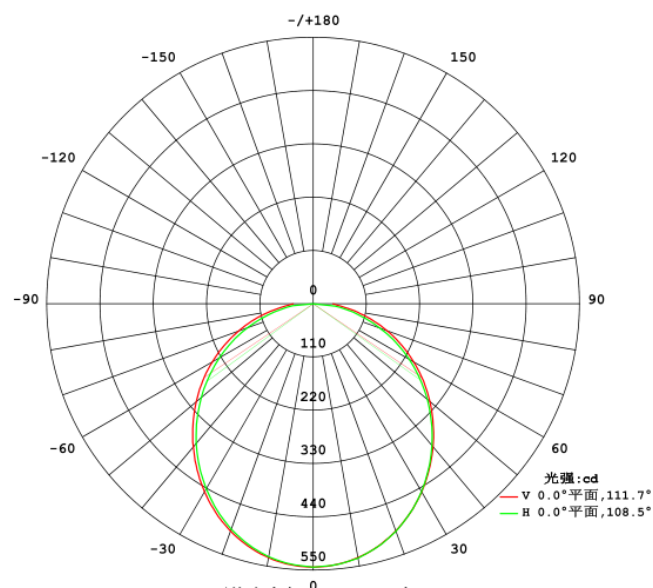


- The emergency function can be turned off by inching switch in emergency mode.
- When L1 has no power, emergency mode can be started by pressing switch for 5s.
- If you need to continue the emergency mode after 90-minutes discharge , you can restart the emergency function by pressing the switch for 5s.

Precautions

- The product adopts PC material components (such as lampshade, shell), and can't be directly or indirectly touched with organic solvents such as industrial alcohol, banana oil, isopropyl alcohol, carbon tetrachloride, cyclohexanone, etc., otherwise it will be eroded and cracked.
- Temperature rising is normal phenomenon.
- The product is sealed, non-professional maintenance personnel is not allowed to disassemble. Once found, the warranty will be ineffective.
- Do not open any part of the lamp body while the product is working.
- The polymer lithium ion battery in the emergency lamps is consumable, with a cycle life of 500 times (iec61951-2/2011/7.5.1.2). It is recommended to charge and discharge the product every three months.

Light distribution pattern



How to Order

Material NO.	Model	Power	Voltage	Luminous	Luminous efficacy	Installation method	Others
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Thanks for choosing our products, NANHUA Electronics is the professional brand of signal transmission and high quality industrial lighting which is trusted and loved by global users from various industries. Read and understand these instructions completely and carefully. Wrong installation and operation may lead to fires, electric shock, and others. Due to our continued efforts to improve our products, product specifications are subject to change without notice.

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