MAML-02C Series Explosion-proof Lighting Fixtures

-45℃ Low temperature | +60℃ High temperature | dbⅡC Gas | tb ⅢC Dust | IP66 protection degree

Product feature

- Can be used in hazardous area which includes combustible and dust gas, such as chemical engineering, oil refinery, food processing, oil exploitation, offshore oil platform, tanker, tunnel pipe gallery, military industry, spaceflight , pharmacy, metallurgy, mineral products and etc.
- The enclosure is die casting by aluminum alloy, the corrosion-proof performance improved, the surface is high voltage static spraying after shot-blasting and high frequency cleaning. The exposed fastener is stainless steel. Beautiful appearance.
- Can be used in Zone 1, Zone 2, IIC, IIB, IIA type combustible gas environment.
- Can be used in Zone 21, Zone 22, IIC, IIB, IIA type combustible dust environment.
- The transparency cover use the ribbed toughened glass cover, which can stand the 4J impact.
- The color rendering is extraordinary: the color temperature of standard product is 5500-6500K, which avoid the tired emotion caused by low color temperature of traditional lighting fixture. The operation efficiency improved imperceptibly. Other color temperature can be customized, which can meet the requirements of different environment.
- The lighting can be stable used in 127-256V wide range voltage. It can meet the EMC requirements. The protection functions are available in short circuit, overload and overvoltage.
- The emergency device can be installed as per client requirements. When supply power cut off, the lighting fixture can be turned into emergency lighting condition.
- Wiring with cable or steel tube.

Model meaning

MAML-02C – A – B – C – D

A: Model(Power)	B: Mounting Type	C: With wire guard or not	D: With Emergency Or Not
100(30W)	C-ceiling type	without wire guard （optional）	without emergency （optional）
100(40W)	W1-30°wall type	Carbon steel with N1-white painted	with emergency （indicate time）
100(50W)	W2-90°wall type	N2-304SS	
100(60W)	W3- Bracket wall suction type	N3-316SS	
100(70W)	U-Bracket type		
100(80W)	S-Pendant pole type		
100(90W)	h-hook type		
100(100W)	R-ring type		
180(120W)	P1(P3)-fence type		
180(160W)	P2(P4)-pole type		
180(180W)	f-tillable mounting type 0-Without mounting type(Stype appearance).		

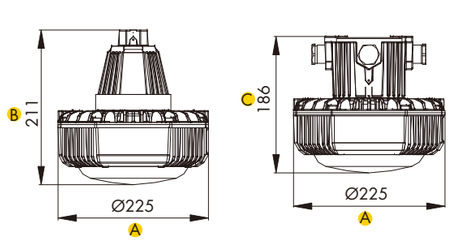
For example #1: Explosion-proof LED lighting fixture, lamp source is 30W, tillable mounting type, without wire guard, without emergency. the product model No. is MAML-02C-100(30W)-f.

For example #2: Explosion-proof LED lighting fixture, lamp source 100W, without mounting type, with SS304 wire guard, with emergency time 60min, the product model No. is MAML-02C-100(100W)-0-N2-EG60min

Technical parameter

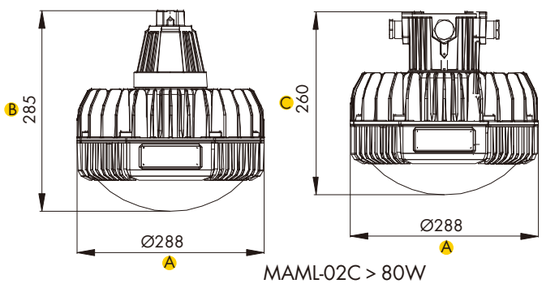
Ambient Temperature	Ex Marking		
	GB	IECEX	ATEX
-45°C ~ +40°C	Ex db IIC T5 Gb Ex tb IIIC T95°C Db	Ex db IIC T5 Gb Ex tb IIIC T95°C Db	Ex II 2G Ex db IIC T5 Gb Ex II 2D Ex tb IIIC T95°C Db
-45°C ~ +60°C	Ex db IIC T4 Gb Ex tb IIIC T130°C Db	Ex db IIC T4 Gb Ex tb IIIC T130°C Db	Ex II 2G Ex db IIC T4 Gb Ex II 2D Ex tb IIIC T130°C Db
Conformity to standards	GB/T 3836.1 GB/T 3836.2 GB/T 3836.31 IEC/EN60079-0 IEC/EN60079-1 IEC/EN60079-31		
IP	IP66		
Enclosure Material	Aluminium alloy ZL102 material code		
Powder coated and color	Electrostatic powder coating, international standard color code:RAL 7090		
Transparent cover	Ribbed high strength glass,stands 4J impact		
The material of Exposed fastener	SS304/SS316 stainless steel		
LED lamp bead brand	Kori CREE (preferred), OSRAM OSRAM, philips Lumileds, Samsung Samsung, Japan's Nichia, Seoul Seoul		
LED power supply brand	Inentronics , Meanwell , MOSO and Etc.		
The power of the lamp	30W、40W、50W、60W、70W、80W、90W、100W、120W、150W、180W		
Rated voltage	127~256V AC 50/60HZ		
Allow maximum cable specification and cable outer diameter	3x2.5mm (armored cable, rubber cable) / cable outer diameter range: 10~14mm		
Specification of thread inlet thread	Standard M25 x 1.5, other NPT3/4, G3/4 and other special thread indicate;Standard ceiling wiring cavity equipped with 2 cable entries		
Note: Cable gland is ordered separately by the customer. The sales of this product does not include Cable gland with inlet.			

S, C type Outline Dimensional Drawing



MAML-02C≤80W

■ S: Single cable entry wiring cavity ■ C: Four cable entries wiring cavity



MAML-02C > 80W

■ S: Single cable entry wiring cavity ■ C: Four cable entries wiring cavity

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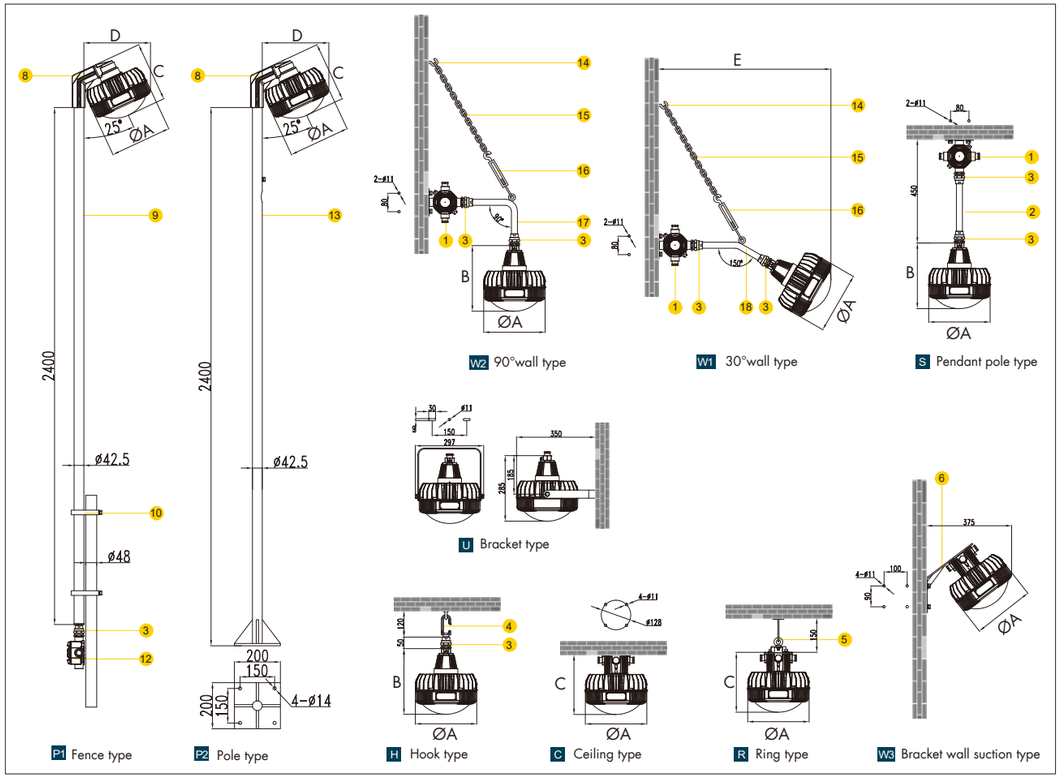
Appearance size, weight and other parameters

Model specification	Power (W)	Color temperature	Power factor	Dimensions (mm) L*W				weight(Kg)		Temperature Classes Tc
				A	B	A	C	S	C	
MAML-02C-100	30 40 50 60 70 80 90 100	5500-6500K	≥0.98	225	211	225	186	3.05	3.2	T5/T4
MAML-02C-180	120 150 180	5500-6500K	≥0.98	288	285	288	260	7.35	7.5	

Installation reference

Power（W）	Dimensions (mm)				
	A	B	C	D	E
MAML-02C-100（30W/40W/50W/60W/70W/80W）	225	211	186	240	700
MAML-02C-100（90W/100W）	288	285	260	290	750
MAML-02C-180（120W/150W/180W）					



◆ Please refer to the list of accessories on pages P137-138 for the specific product information of the serial number above and refer to P139-P140 for the configuration of accessories.

Product advantage and features

01

Using 3 individual construction (wiring cavity, power supply cavity and lamp source cavity), reducing the heating conduction superposition, which ensure requirement of product long-life.

02

The connection between lighting fixture and wiring cavity is wireless connection structure, which avoid wire wrapping problem, and it's thread can be interchangeable. It is convenient for installation and maintain for other lamp source.

03

The wiring panle inside wiring cavity is patented quickly removed struction type, which improved the site installation efficiency.

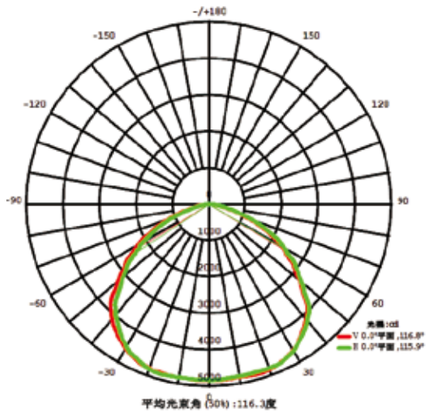
04

Ceiling type wiring cavity is convenient for branching, the maximum quantity of cable entries is 4, there are 2 sets of terminals for wiring panel, which convenient for branching and wiring in site, and reducing the usage of terminals box and saving cost.

05

Using the international famous brand of lamp source and WAGO terminals, which ensure the long life time of product.

06

The transparency cover use high ribbed strength toughened glass cover, which can stand the 4J impact, the glass inside design is fog type which realize the anti-glare function.

Photometric date for each lamp source.