HEXLON

HLBDJ11-Series Explosion-proof Emergency Exit Lightings

1 Application and Features

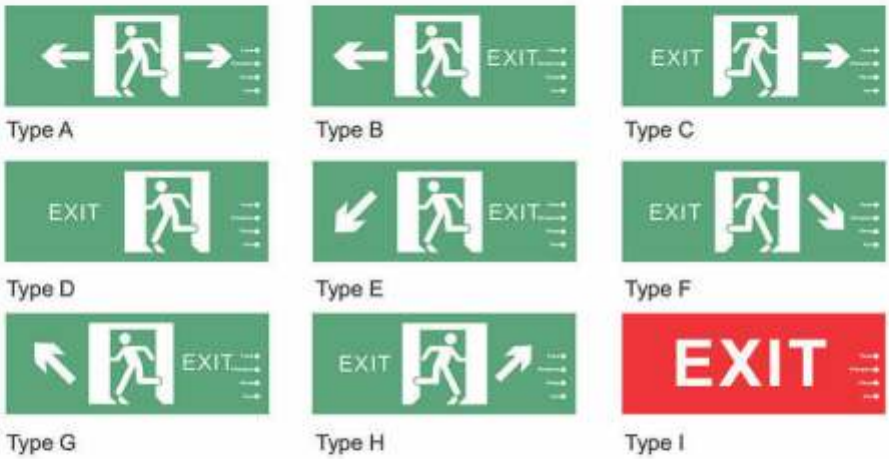
- Explosion protection
  - IECEx (IEC)
  - ATEX (CENELEC,EN)
  - China Ex(GB)
- Application in hazardous area
  Zone 1 and Zone 2,
  Zone 21 and Zone 22
- Continuous light with built-in maintenance-free battery pack, automatically charging, and automatically switch to battery power supply when power source cut off or in emergency situation.
- LED light source, low power consumption, long life.

2 Part Number

HLBDJ 11 □□/□/□/□/□/□

- Inlet thread specification
- Number of inlets: 2-Way; 3-Way
- Installation method: B-Wall type, X1-Ceiling type; X2-Ceiling type, G-Pendant type
- Sign code
- Rated voltage: I- AC/DC100~300V; II- AC/DC12~36V
- H-IIB+H2; B-IIB
- Design No.
- Explosion-proof emergency exit lightings

3 Guide Sign



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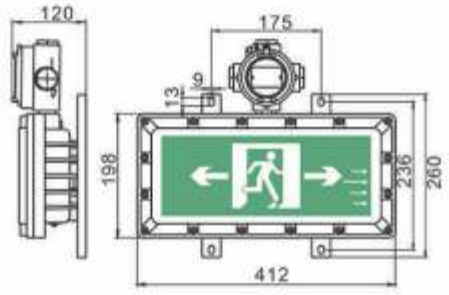
HLBDJ11-Series Explosion-proof Emergency Exit Lightings

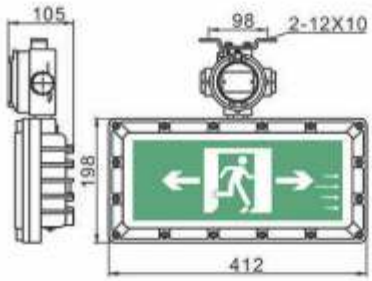
4 Specifications

Ex marking	Gas	Ⓔx II 2 G Ex db IIB T6 Gb,	Ex db IIB T6 Gb,	Ex d IIB T6 Gb,
	Dust	Ⓔx II 2 G Ex db IIB+H2 T6 Gb	Ex db IIB+H2 T6 Gb	Ex d IIB+H2 T6 Gb
		Ⓔx II 2 D Ex tb IIIC T80℃ Db	Ex tb IIIC T80℃ Db	Ex tD A21 IP66/67 T80℃ Db
Conformity to standards		IEC60079-0,IEC60079-1,IEC60079-31 EN60079-0, EN60079-1, EN60079-31 GB3836.1,GB3836.2,GB12476.1,GB12476.5		
Structure, Material	Enclosure	Aluminum alloy enclosure, powder coated,industrial grey with dark lines texture (RAL7035)		
	Transparent cover	Tempered glass, resistant to 4J impact		
	Guide sign	9 signs, and customizable		
	Control module	With overcharge, overdischarge, short circuit protection and others.		
	Self-check function	With self-checking function, automatic discharge once per month, emergency working for 120seconds, and automatically back to main power supply.Annual self-checking function, automatically switch to emergency state and run over the battery, then automatically back to main power supply and charge the batteryThe fault will automatically alert with light and sound.		
	Exposed fastener	Stainless steel		
Light source		LED		
Rated voltage		100~300V AC/DC； 12, 24, 36V AC/DC		
Emergency unit voltage		DC3.0~3.5V		
Emergency working time		≤180 min		
Charging time		<24h		
Frequency		50/60Hz		
Rated voltage		≤6W		
Degree of protection		IP66, IP67		
Ambient temperature		-40℃~+55℃/60℃		
Terminal block		3X1.5~4mm² (L+N+PE)		
Cable entries		M20X1.5、M25X1.5、NPT1/2、NPT3/4		
Available cable outer diameter (mm)		φ10~φ14(mm)		
Weight		Wall type (B): 7kg, Ceiling type (X1): 6.6kg, Ceiling type (X2): 6.8kg, Pendant type (G): 6.6kg		

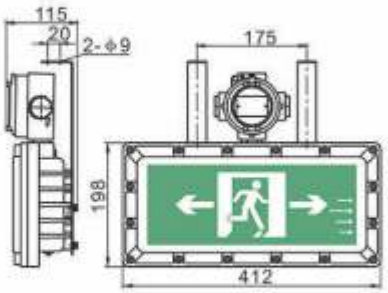
5 Outline and Installation Dimension (Dimensions in mm)



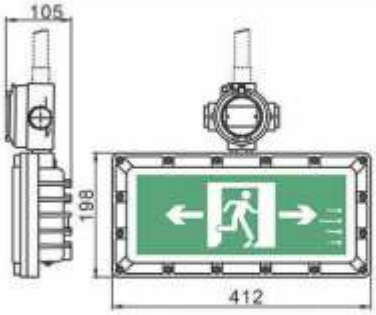
Wall type (B)



Ceiling type (X1)



Ceiling type (X2)



Pendant type (G)

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HLBD05-Series Explosion-proof LED Lightings

1 Application and Features

- Explosion protection
  - IECEx (IEC)
  - ATEX (CENELEC, EN)
  - China Ex(GB)
- Application in hazardous area
  Zone 1 and Zone 2,
  Zone 21 and Zone 22
- Light source and power:
  LED: 20W, 25W, 30W, 45W, 50W, 60W, 70W, 85W, 100W, 120W
- Four enclosure types : 30,60,70,120
- Outline: Type I and Type II, with bigger beam angle
- Light source cavity, electrical cavity and wiring cavity are separately. Only need to open the wiring cavity when wiring, convenient and safe for installation and maintenance.
- Wireless connection between lamp body and installation accessories, and installation accessories of various installation methods can be interchangeable and universal. Installation and maintenance are convenient, fast and safe.
- Emergency unit can be equipped upon request.
- Protective grid can be equipped upon request.

I Type
T-Spotlight type

II Type

2 Part Number

HLBD 05- □□/□□□□□□

- M - Mingwei power supply
- I - Inventronics power supply
- N - With protective grid
- None - Without protective grid
- G-Pendant type / T-Spotlight type
- B-Wall type / X-Ceiling type
- D1-Hanging chain type / D2-Hanging chain type
- F1-90°Flange type / F2-25°Flange type
- h1-90°Fence type / h2-25°Fence type
- A-With anti-glare board
- None-Without anti-glare board
- Optional: Optical lens:30°/45°/60°(Only I type)
- Optional: None-Without optical lens
- Rated power
- I-Flat glass
- II-Convex glass
- Design No.
- Explosion-proof LED lightings

Note: T-Spotlight type is optional, and LED exposure angle: 30°, 45°, 60°.

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HLBD05-Series Explosion-proof LED Lightings

3 Specifications

Ex marking	Gas	Ⓔx II 2 G Ex db op is IIC T6/T5 Gb	Ex db op is IIC T6/T5 Gb	Ex d IIC T6/T5 Gb
	Dust	Ⓔx II 2 D Ex tb op is IIIC T80/T95℃Db	Ex tb op is IIIC T80/T95℃Db	Ex tD A21 IP66 T80/T95℃
Conformity to standards		IEC60079-0, IEC60079-1, IEC60079-28,IEC60079-31 EN60079-0, EN60079-1, EN60079-28, EN60079-31 GB3836.1,GB3836.2,GB12476.1,GB12476.5		
Structure, Material	Enclosure	Aluminum alloy enclosure, powder coated, industrial grey with dark lines texture (RAL7035)		
	Transparent cover	Tempered glass, resistant to 4J impact, type II has a larger irradiation angle		
	Protective grid	Steel wire powder coating (white) or stainless steel, please note when needed		
	LED power	Wide voltage input (90~305VAC), constant power output, power factor ⩾0.95. With protection functions of constant current, over current, open circuit, short circuit, surge prevention, etc.		
	Emergency unit	Explosion-proof emergency unit, when the power supply is off, the lamp will automatically switch to the emergency lighting state		
	Irradiation angle	30°, 45°, 60°, adjustable angle of the mounting bracket		
	Exposed fastener	Stainless steel		
Light source	Specification	LED (Cree), multiple arrangement, luminous efficiency ⩾140 lm/W, color rendering ⩾70		
	Power (W)	LED：20W,25W,30W,45W,50W,60W,70W,85W,100W,120W		
	LED (CCT) color temperature	Cool white: 5700K (default) Note: Warm white (3000K) and natural white (4000K) can be customized, please note it when ordering.		
Rated voltage		Mingwei: 90~264V AC, Inventronics: 90~305V AC		
Frequency		50/60Hz		
Degree of protection		IP66		

Ambient temperature	Mingwei power supply	HLBD05- I		HLBD05- II	
		20W~60W	70W~120W	20W~70W	85W~120W
		-40℃~+55℃:T6	-40℃~+40℃:T6 -40℃~+55℃:T5	-40℃~+55℃:T6	-40℃~+40℃:T6 -40℃~+55℃:T5
	Inventronics power supply	HLBD05- I (II)			
		20W~60W	70W~120W		
		-40℃~+55℃:T6	-40℃~+40℃:T6 -40℃~+55℃:T5		

Terminal block	3X1.5~4mm² (L+N+PE)
Cable entries	1-G3/4 or M25X1.5 or NPT3/4 (Pendant type, Spotlight type) 2-G3/4 or M25X1.5 or NPT3/4 (Wall type, pendant type with junction box, hanging chaintype, ceiling type) 4-G3/4 or M25X1.5 or NPT3/4 (Ceiling type) Note: The thread hole with stop plug is M25X1.5 or NPT3/4, and the thread hole with cable gland is M25X1.5, NPT 3/4, or G3/4 (with rubber sealing ring).
Available cable outer diameter (mm)	φ9~φ14(mm)

4 The view of wireless connection structure

Wireless connection structure:
convenient and safe for installation and maintenance.

a. Easy for installation: Only need to fix installation base and connect to the power line, then assemble the lamp. This construction not only improves the efficiency, shorten the lead time, but also upgrades the construction safety;

b. Easy for maintenance: Can be quickly removed for repairs and replacement. Significantly simplifying the installation, the maintenance process of the light fixtures, with the addition benefit of being more safe for the maintenance.

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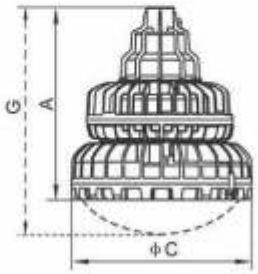
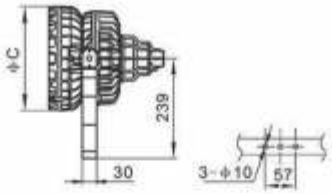
HLBD05-Series Explosion-proof LED Lightings

5 Outline and Installation Dimension (Dimensions in mm)

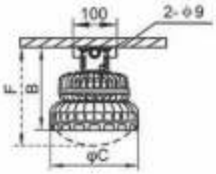
Size(mm) / Power(W)	A	B	ΦC	D	E	F	G	H	I
20, 25, 30	250	235	218	291	275	283	298	383	323
45, 50, 60	260	245	248	345	285	293	308	393	333
70	282	264	248	367	304	312	330	415	352
85, 100, 120	288	270	300	373	310	318	336	421	358



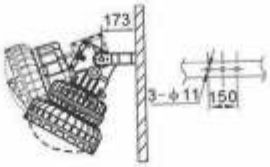
Note: If with protective net, size A plus 15mm more



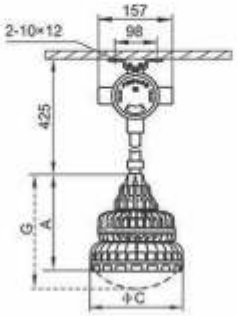
Spotlight type(T)



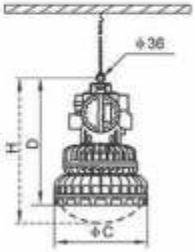
Ceiling type(X)



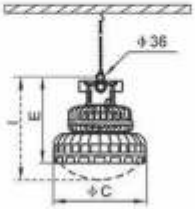
Wall type(B)(30~90° adjustable)



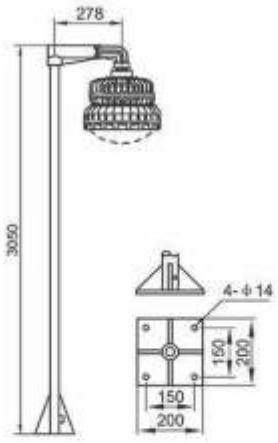
Pendant type(G)



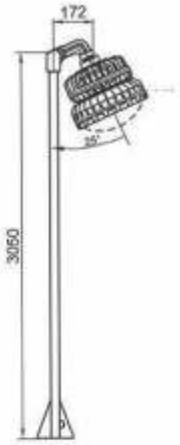
Hanging chain type (D1)(side opening)



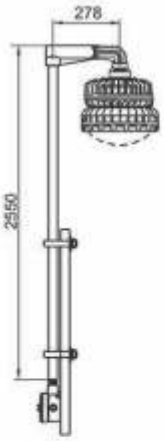
Hanging chain type(D2)



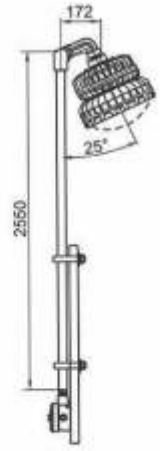
Flange type (F1)



Flange type (F2)



Fence type(h1)



Fence type(h2)

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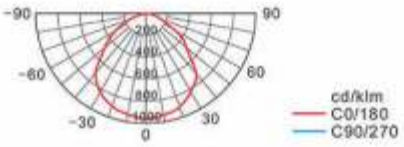
HLBD05-Series Explosion-proof LED Lightings

6 Selection Table

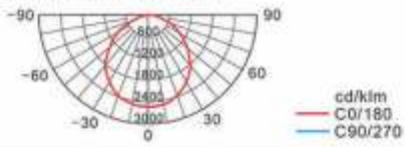
Type I (flat glass)				Type II (convex glass)			
Type	Weight (kg)	Type	Weight (kg)	Type	Weight (kg)	Type	Weight (kg)
HLBD05-I30	4. 90	HLBD05-I70	5. 80	HLBD05-II30	5. 20	HLBD05-II70	6. 00
HLBD05-I30G	5. 30	HLBD05-I70G	6. 18	HLBD05-II30G	5. 58	HLBD05-II70G	6. 38
HLBD05-I30B	6. 00	HLBD05-I70B	6. 90	HLBD05-II30B	6. 30	HLBD05-II70B	7. 10
HLBD05-I30B1	6. 60	HLBD05-I70B1	7. 10	HLBD05-II30B1	6. 50	HLBD05-II70B1	7. 30
HLBD05-I30B2	6. 75	HLBD05-I70B2	7. 25	HLBD05-II30B2	6. 65	HLBD05-II70B2	7. 45
HLBD05-I30T	5.70	HLBD05-I70T	7. 90	HLBD05-II30T	5. 90	HLBD05-II70T	8. 50
HLBD05-I30X	5.70	HLBD05-I70X	7. 90	HLBD05-II30X	5. 90	HLBD05-II70X	8. 50
HLBD05-I30D1	5.70	HLBD05-I70D1	8. 00	HLBD05-II30D1	6. 30	HLBD05-II70D1	8. 50
HLBD05-I30D3	5.40	HLBD05-I70D3	7. 80	HLBD05-II30D3	6. 00	HLBD05-II70D3	8. 30
HLBD05-I30F1(no pole)	7.20	HLBD05-I70F1(no pole)	9. 50	HLBD05-II30F1(no pole)	7. 50	HLBD05-II70F1(no pole)	9. 50
HLBD05-I30F2(no pole)	6.70	HLBD05-I70F2(no pole)	9. 00	HLBD05-II30F2(no pole)	7. 00	HLBD05-II70F2(no pole)	9. 00
HLBD05-I30h1(no pole)	7.20	HLBD05-I70h1(no pole)	9. 50	HLBD05-II30h1(no pole)	7. 50	HLBD05-II70h1(no pole)	9. 50
HLBD05-I30h2(no pole)	6.70	HLBD05-I70h2(no pole)	9. 00	HLBD05-II30h2(no pole)	7. 00	HLBD05-II70h2(no pole)	9. 00
HLBD05-I60	5.5	HLBD05-I120	8	HLBD05-II60	5. 80	HLBD05-II120	8. 5
HLBD05-I60G	5.88	HLBD05-I120G	8. 38	HLBD05-II60G	6. 18	HLBD05-II120G	8. 88
HLBD05-I60B	6.60	HLBD05-I120B	9. 10	HLBD05-II60B	6. 90	HLBD05-II120B	9. 6
HLBD05-I60B1	7.20	HLBD05-I120B1	9. 30	HLBD05-II60B1	7. 10	HLBD05-II120B1	9. 8
HLBD05-I60B2	7.35	HLBD05-I120B2	9. 45	HLBD05-II60B2	7. 25	HLBD05-II120B2	9. 95
HLBD05-I60T	6.30	HLBD05-I120T	8. 70	HLBD05-II60T	6. 60	HLBD05-II120T	9. 30
HLBD05-I60X	6.30	HLBD05-I120X	8. 70	HLBD05-II60X	6. 60	HLBD05-II120X	9. 30
HLBD05-I60D1	6.20	HLBD05-I120D1	8. 60	HLBD05-II60D1	6. 70	HLBD05-II120D1	9. 50
HLBD05-I60D3	6.00	HLBD05-I120D3	8. 40	HLBD05-II60D3	6. 50	HLBD05-II120D3	9. 30
HLBD05-I60F1(no pole)	7.80	HLBD05-I120F1(no pole)	10. 50	HLBD05-II60F1(no pole)	8. 10	HLBD05-II120F1(no pole)	1. 50
HLBD05-I60F2(no pole)	7.30	HLBD05-I120F2(no pole)	10. 00	HLBD05-II60F2(no pole)	7. 60	HLBD05-II120F2(no pole)	10. 00
HLBD05-I60h1(no pole)	7.80	HLBD05-I120h1(no pole)	10. 50	HLBD05-II60h1(no pole)	8. 10	HLBD05-II120h1(no pole)	10. 50
HLBD05-I60h2(no pole)	7.30	HLBD05-I120h2(no pole)	10. 00	HLBD05-II60h2(no pole)	7. 60	HLBD05-II120h2(no pole)	10. 00

7 Luminous distribution curve

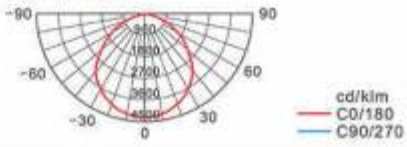
HLBD05-30 Rated luminous flux
20W:2040lm, 25W:2550lm,30W:3060lm



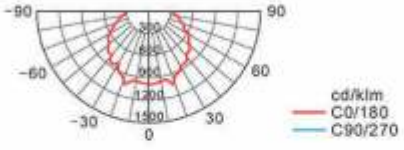
HLBD05-70 Rated luminous flux
45W:4590lm,50W:5100lm,
60W:6120lm,70W:7140lm



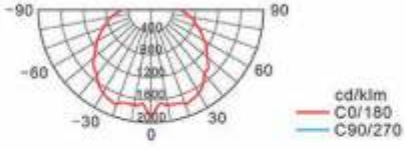
HLBD05-120 Rated luminous flux
85W:8670lm,100W:10200lm,
120W:12240lm



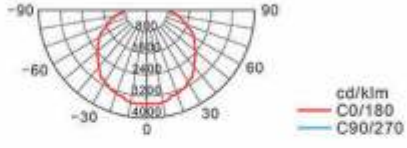
HLBD05-II30 Rated luminous flux
20W:2400lm,25W:3000lm,30W:3600lm



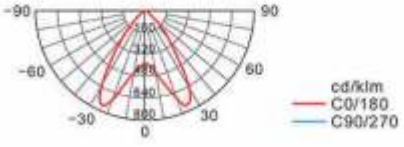
HLBD05-II70 Rated luminous flux
45W:5400lm,50W:6000lm,
60W:7200lm,70W:8400lm



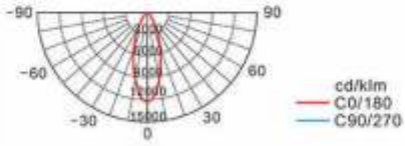
HLBD05-II120 Rated luminous flux
85W:10200lm,100W:12000lm,
120W:14400lm



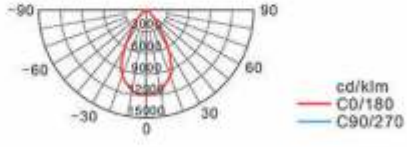
HLBD05-30/T Rated luminous flux
20W:2200lm,25W:2750lm,30W:33000lm



HLBD05-70/T Rated luminous flux
45W:4950lm,50W:5500lm,
60W:6600lm,70W:7700lm



HLBD05-120/T Rated luminous flux
85W:9350lm,100W:11000lm,
120W:13200lm



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HLBD05-Series Explosion-proof LED Lightings

8 Accessories list

The installation accessories required by different installation methods see the table below;

Installation method	Item	Qty	Purchase code	Weight (kg)
G-Pendant type	Explosion-proof pipe joint (G3/4 or M25×1.5)	1	2.12.1100014(G3/4) 2.12.1100114(M25X1.5)	0.06
	Straight pipe, both ends M25×1.5, length 300mm	1	4.02.901.0113	0.34
	Explosion-proof terminal box	1	1.03.101.00001	0.66
	Mounting brackets	1	2.14.0711001	0.08
T-Spotlight type	Mounting brackets	1	2.14.0707055	0.72
X-Ceiling type	Outlet box	1	1.52.901.00062	0.9
B-Wall type(adjustable)	Outlet box	1	1. 52. 901. 00071	1.3
	Mounting brackets	1	2. 14. 0707051	0.68
B1/B2-Wall type	Explosion-proof terminal box	1	1. 03. 101. 00001	0.66
	Mounting brackets	1	2. 14. 0711001	0.04
	30°/90° bending pipe	1	1.02.901.00120(30°) 1.02.901.00121(90°)	0.4/0.55
	Chain (length 300mm)	1	2. 15. 1000101	0.1
	Expansion hook	1	2. 18. 2000011	0.02
	Flower basket hook (galvanized)	1	2. 18. 2000001	0.04
D1-Hanging chain type(side opening)	Outlet box	1	4. 02. 901. 0037	1.3
	Chain (length 300mm)	1	2. 15. 1000101	0.1
	Expansion hook	1	2. 18. 2000011	0.02
	Spring clasp	1	2. 18. 1604091	0.003
	Mounting brackets	1	2. 14. 0707053	0.04
	M8 Eyebolt	1	2. 18. 1100021	0.04
D3-Hanging chain type	Outlet box	1	4. 02. 901. 0021	0.92
	Chain (length 300mm)	1	2. 15. 1000101	0.1
	Expansion hook	1	2. 18. 2000011	0.02
	Spring clasp	1	2. 18. 1604091	0.003
	Mounting brackets	1	2. 14. 0707001	0.06
	M8 Eyebolt	1	2. 18. 1100021	0.04
F1/F2-Flange type	Flange pole(G11/4)	1	1.02.901.00097	10.7
	90°/25°Outlet box	1	1.02.901.00091 1.02.901.00092	25° " 1. 08 90° " 1. 35
h1/h2-Fence type	Fence pole	1	1. 02. 901. 00095	5. 9
	Explosion-proof pipe joint (G3/4 or M25X1.5)	1	2.12.1100014(G3/4) 2.12.1100114(M25X1.5)	0. 06
	Explosion-proof terminal box	1	1. 03. 101. 00028	0. 66

Note: The accessories that are not mentioned in the table, user need provide it by themself.

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HLBD06- Series Explosion-proof LED Lightings

1 Application and Features

- Explosion protection
  -IECEx (IEC)
  -ATEX (CENELEC, EN)
  -China Ex(GB)
- Application in hazardous area
  Zone 1 and Zone 2,
  Zone 21 and Zone 22
- Light source and power:
  Spotlight LED: 130, 150, 160, 180, 190, 200, 220, 240W
  Floodlight LED: 130, 150, 160, 180, 190, 200, 220, 240, 260, 280W
- Two enclosure types: Spot light, Floodlight.
- Light source cavity, electrical cavity and wiring cavity are separate. Only need to open the wiring cavity when wiring, convenient and safe for installation and maintenance.
- The angle of bracket is adjustable.
- Protective grid can be equipped upon request.

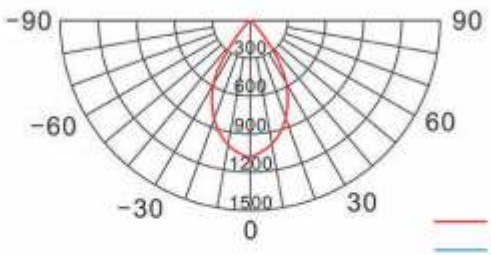
2 Part Number

HLBD 06 - □ □ / □ □ □

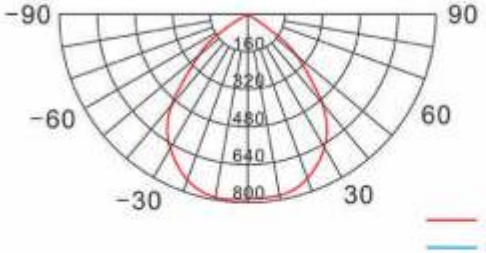
- N - With protective grid
- None - Without protective grid
- Installation method: B-Bracket type, X-Ceiling type, K-Clamp type, G-Pendant type, O-Hook Type
- B-EUB power supply
- M1-EUM150 power supply
- M2-EUM200 power supply
- M1G-EUM150 power supply (High luminous efficiency, only for 130W, 150W)
- Power
- Outline code: T-Spotlight type, F-Floodlight type
- Design No.
- Explosion proof LED lightings

3 Luminous distribution curve

HLBD06-T Rated luminous flux
150W:15500lm, 200W:20000lm, 240W:22800lm



HLBD06-F Rated luminous flux
150W:18200lm, 200W:22500lm, 260W:26000lm



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HLBD06- Series Explosion-proof LED Lightings

4 Specifications

Ex marking	Gas	Ⓔx II 2 G Ex db op is IIC T6/T5/T4 Gb	Ex db op is IIC T6/T5/T4 Gb	Ex d IIC T6/T5/T4 Gb
	Dust	Ⓔx II 2 D Ex tb op is IIIC T80/T95/T130℃ Db	Ex tb op is IIIC T80/T95/T130℃ Db	Ex tD A21 IP66 T80/T95/T130℃ Db
Conformity to standards		IEC60079-0, IEC60079-1, IEC60079-28,IEC60079-31 EN60079-0, EN60079-1, EN60079-28 ,EN60079-31 GB3836.1,GB3836.2,GB12476.1,GB12476.5		
Structure, Material	Enclosure	Aluminum alloy enclosure, powder coated, industrial grey with dark lines texture (RAL7035)		
	Transparent cover	Tempered glass, resistant to 4J impact		
	Protective grid	Steel wire powder coating (white) or stainless steel, please note when needed		
	LED power	Wide voltage input (90~305VAC/127~250VDC), constant power output, power factor ⩾ 0.96. With protection functions of constant current, over current, open circuit, short circuit, surge prevention, etc.		
	Reflector	Secondary optical design, significantly improve the efficiency of the lamp, uniform illumination, no glare		
	Beam angle	Spotlight type: 60°, floodlight type: 145°		
	Exposed fastener	Stainless steel		
Light source	Specification	LED (Cree), multiple arrangement, luminous efficiency ⩾140 lm/W, color rendering ⩾70		
	Power (W)	LED: 130, 150, 160, 180, 190, 200, 220, 240, 260, 280W		
	LED (CCT) color temperature	Cool white: 5700K (default) Note: Warm white (3000K) and natural white (4000K) can be customized, please note it when ordering.		
Rated voltage, frequency		100~277VAC/140~225VDC, 50/60Hz		
Degree of protection		IP66, IP67		

Ambient temperature

HLBD06-T(Spotlight type)			
130,160,180, 190,200W	200W	190,200, 220,240W	130,150, 160,180W
-40℃~+60℃:T4	-40℃~+55℃:T4	-40℃~+40℃:T5	-40℃~+40℃:T6 -40℃~+55℃:T5

HLBD06-F(Floodlight type)				
130,150,160, 180,190W	130,150W	220W	220,240, 260,280W	130,150,160 180,190,200W
-40℃~+60℃:T4	-40℃~+60℃:T5	-40℃~+55℃:T4	-40℃~+40℃:T5	-40℃~+40℃:T6 -40℃~+55℃:T5

Terminal block	3×1.5~4mm² (L+N+PE)
Cable entries	1-M25×1.5, 1-NPT3/4
Available cable outer diameter (mm)	ϕ9~ϕ14(mm)

5 Selection Table

Spotlight type		Floodlight type	
Type	Weight (kg)	Type	Weight (kg)
HLBD06-T200B	11.70	HLBD06-F200B	11.20
HLBD06-T200X	11.70	HLBD06-F200X	11.20
HLBD06-T200G	11.70	HLBD06-F200G	11.20
HLBD06-T200K	11.80	HLBD06-F200K	11.30
HLBD06-T200/O	11.75	HLBD06-F200/O	11.25
HLBD06-T300B	12.10	HLBD06-F300B	11.90
HLBD06-T300X	12.10	HLBD06-F300X	11.90
HLBD06-T300G	12.10	HLBD06-F300G	11.90
HLBD06-T300K	12.20	HLBD06-F300K	12.00
HLBD06-T300/O	12.15	HLBD06-F300/O	11.95

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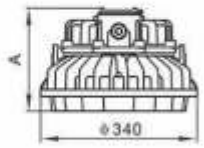
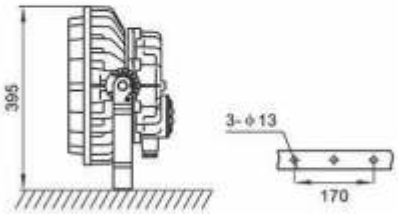
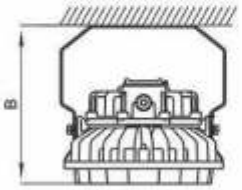
HLBD06- Series Explosion-proof LED Lightings

6 Outline and Installation Dimension(Dimensions in mm)

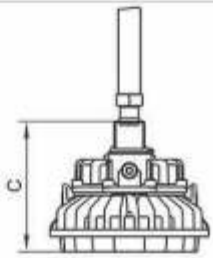




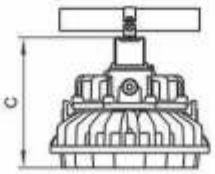
B-Bracket type



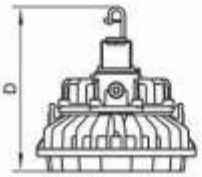
X-Ceiling type



G-Pendant type



K-Clamp type



O-Hook type

Type	A	B	C	D
HLBD06-T	225	340	280	360
HLBD06-F	198	315	253	335

7 Accessories list

Item	Picture	Purchase code	Weight (kg)
Spotlight type glass cover ring		4.02.901.0491	3.46
Floodlight type glass cover ring		4.02.901.0495	3.1
Protective gird		2.03.0100222	0.25

8 Accessories list

The installation accessories required by different installation methods see the table below;

Installation method	Item	Picture	Qty	Purchase code	Weight (kg)
B-Bracket type X-Ceiling type	Mounting bracket		1	2. 15. 0707075	0.85
G-Pendant type	Mounting bracket		1	2. 14. 0707071	0.85
K-Clamp type	Clamp G1		1	2.12.5901007	0.08
	Clamp G1 1/4			2.12.5901010	0.2
	Clamp G1 1/2			2.12.5901013	0.2
	Clamp G2			2.12.5901016	0.24
	Mounting bracket			2. 14. 0707077	0.95
O-Hook type	Mounting bracket		1	2. 14. 0707081	0.95

Note: The accessories that are not mentioned in the table, user need provide it by themself.

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