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www.greenignite.com



312 S James Street, Rome, NY 13440



VOLUME 1

GREEN  **IGNITE**[®]

LED EXPLOSION PROOF CATALOG

WELCOME!

Step into a new era of industrial lighting with Green Ignite's first designated Explosion-Proof Catalog, showcasing the fastest-growing line of LED lights. These innovative luminaires have been expertly designed to illuminate hazardous locations with an unmatched standard of quality. Redefining safety and efficiency, our state-of-the-art LED lights ensure a secure workspace while illuminating industrial environments with remarkable performance.

PART NUMBER EXPLANATION

GI	-	EP		O	-	C		100	-	C1D2		WM
Brand		Fixture Type		Series Type		Color Temperature		Replacement Watt		Classification		Other Specifications
GI: Green Ignite		EP: Explosion Proof		O: O Series		C: 5000K		100: 100 Replaces 100W HID		C1D2: Class I, Division 2		WM: Wall Mounted

➤ Refer to pages 35-38 for an in-depth guide to all of our explosion proof certifications and ratings

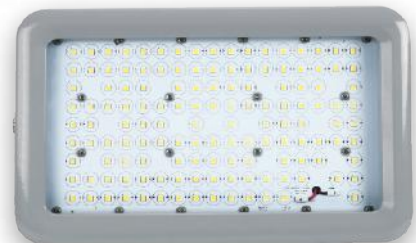
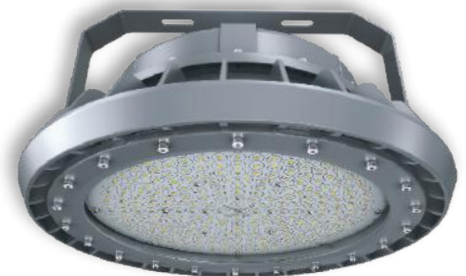


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EXPLOSION PROOF FIXTURE

O SERIES | CLASS I DIVISION 2 | IECEX & ATEX



Dimensions

5.71" x 10.04"

Case Quantity

1PC

IN STOCK

Class I, Division 2

O SERIES | JELLY JARS



(ceiling mounted)



(ceiling mounted)



(wall mounted)

select your fixture

Replaces HID

Consumption

Lumens

Color Temp

Part Number

Spec Sheet



20W

2,800



GI-EPO-C100-C1D2
(ceiling mounted)

GI-EPO-C100-C1D2WM
(wall mounted)



30W

4,200



GI-EPO-C150-C1D2WM
(wall mounted)



40W

5,600



GI-EPO-C175-C1D2WM
(wall mounted)



⚡ 100 - 277 V



Optional Mount

GI-ACC-EPSMA
surface mounting arm



GI-ACC-EP25WS
25° wall support



GI-ACC-EP90WJB
90° wall support &
junction box



GI-ACC-EP90S
90° pole support



GI-ACC-EP25S
25° pole support



GI-ACC-EPPM*
pendant mount



GI-ACC-EPH
hook mount



Optional Accessories

GI-ACC-EPR
reflector



GI-ACC-EPC
pendant chain



GI-ACC-EPSSP*
straight swing pipe



GI-ACC-EPBP*
bended pipe



GI-ACC-EPJB*
junction box



GI-ACC-EPEDK15
15W Emergency
back-up kit



GI-ACC-EPED15C
conduit for 15W
Emergency back-up kit



*for ceiling mounted options only

Included Accessories

GI-ACC-EPPG
protective guard



GI-ACC-EPG
globe



GI-ACC-EPHS
heat sink



Features

- ▶ Rated for high temperatures, humidity, dust & vapor locations
- ▶ Heavy duty & high impact resistant
- ▶ 0-10V Dimmable
- ▶ Tempered glass for high heat resistance

Additional Specs

Beam Angle: 120°

Warranty: 6 years

Ambient Temp (F): -40° - 141°

Efficacy: 140 lm/W

Classifications



ATEX Marking
II 2G Ex eb mb IIC T6/T5/T4 Gb
II 2D Ex tb IIIC T80°C/T95°C/T130°C Db
IP66



IECEx Marking
Ex Eb mb IIC T6/T5/T4 Gb
Ex tb IIIC T80°C/T95°C/T130°C Db IP66



UL844 Marking (North American)
Class I, Division 2, Groups A, B, C, D
Class II, Division 1, Groups E, F, G
Class II, Division 2, Groups F, G
Class III

Marine Marking UL 1598A Other Rating
NEMA 3, 4X, IP66, IK08

Materials

Lens: Tempered glass

Housing: Copper free aluminum



EXPLOSION PROOF FIXTURE

B SERIES | CLASS I DIVISION 2 | IECEX & ATEX



IN STOCK



Dimensions

60W (compact)	9.1" x 9.1" x 8.7"
60W (large) & 80W	10.6" x 10.6" x 6.5"
100W-200W	14.6" x 14.6" x 7.6"
250W-400W	18.9" x 18.9" x 9.9"

Case Quantity

1PC

Class I, Division 2

B SERIES

select your fixture

Replaces HID Consumption Lumens Color Temp Part Number Spec Sheet



60W

8,400



GI-EPB-C250C-C1D2
(compact)
GI-EPB-C250L-C1D2
(large)



80W

11,200



GI-EPB-C250HO-C1D2



100W

14,000



GI-EPB-C400-C1D2



150W

21,000



GI-EPB-C400HO-C1D2
GI-EPB-C400HO-480C1D2



200W

28,000



GI-EPB-C1000EC-C1D2
GI-EPB-C1000EC-480C1D2



250W

35,000



GI-EPB-C1000-C1D2



300W

42,000



GI-EPB-C1000HO-C1D2

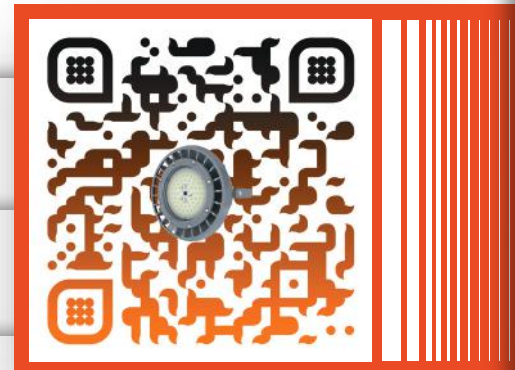


400W

56,000



GI-EPB-C1500-C1D2



⚡ 100 - 277 V ⚡⚡ 277 - 480 V




Optional Accessories

GI-ACC-EPC
pendant chain




GI-ACC-EPSSP
straight swing pipe



GI-ACC-EPBP*
bended pipe



GI-ACC-EPJB
junction box



GI-ACC-EPED15
15W Emergency driver + controller



GI-ACC-EPBWG
wire guard




GI-ACC-EPBG
globe




Optional Mount


GI-ACC-EPMA
surface mounting arm




GI-ACC-EP25WS
25° wall support




GI-ACC-EP90WJB
90° wall support & junction box



GI-ACC-EP90S
90° pole support




GI-ACC-EP25S
25° pole support



GI-ACC-EPH
hook mount




GI-ACC-EPSP-AB
slipfitter for up to 150W



Included Mount

GI-ACC-EPUB
u-bracket / trunion



Features

- Rated for high temperatures, humidity, dust and vapor locations
- Various installation options for particular applications
- Heavy duty & high impact resistant
- 0-10V Dimmable
- Tempered glass for high heat resistance

Additional Specs

Beam Angle: 120°

Warranty: 6 years

Ambient Temp (F): -40° - 131°

Efficacy: 140 lm/W

Classifications



ATEX Marking
II2 G Ex mb eb IIC T4 Gb
II2 D Ex tb IIIC T135°C Db IP66
II3 G Ex ec IIC T3 Gc



IECEx Marking
Ex mb eb IIC T4 Gb
Ex tb IIIC T135°C Db IP66
Ex ec IIC T3 Gc
Ex tb IIIC T85°C Db IP66



UL844 Marking (North American)
Class I, Division 2, Groups A, B, C, D
Class II, Division 1, Groups E, F, G
Class II, Division 2, Groups F, G
Class III

Marine Marking	Other Rating
UL 1598A, UL1598A	IP66, IK08
ABS	

Materials

Mounting Bracket: Stainless steel

Hardware: Stainless steel

Lens: Tempered glass

Housing: Copper free aluminum



EXPLOSION PROOF FIXTURE

STA SERIES | CLASS I DIVISION 2 | IECEX & ATEX



Dimensions

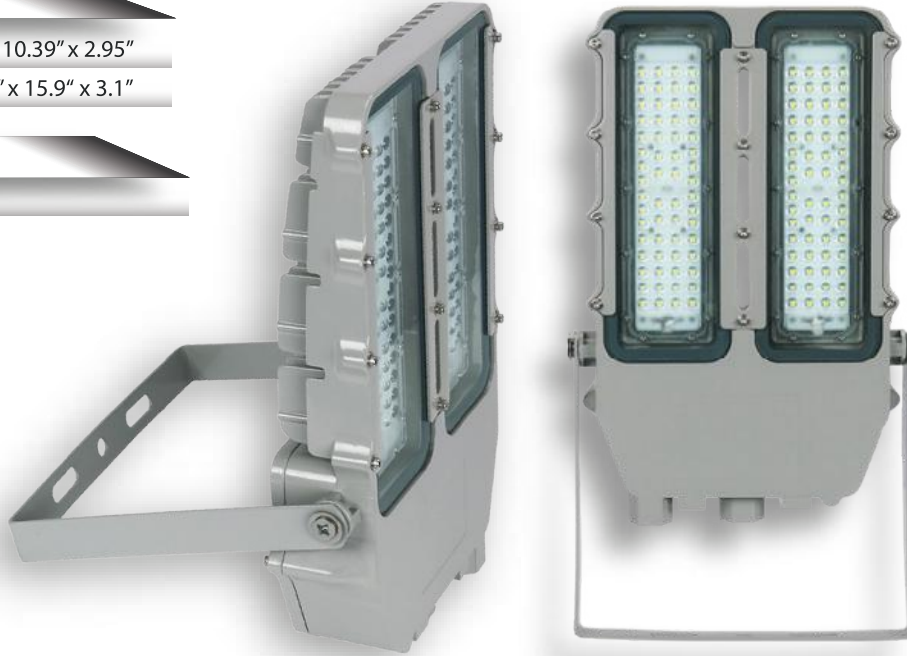
100W / 150W 16.34" x 10.39" x 2.95"

200W 19" x 15.9" x 3.1"

Case Quantity

1PC

IN STOCK



Class I, Division 2

STA SERIES

select your fixture

Replaces HID Consumption Lumens Color Temp Part Number Spec Sheet



100W

13,000



GI-EPSTA-C400-C1D2



150W

19,500



GI-EPSTA-C750-C1D2



200W

26,000



GI-EPSTA-C1000EC-C1D2



⚡ 100 - 277 V



Optional Accessories

GI-ACC-EPAB
adapter bracket



GI-ACC-EPPMB
pole mounting
bracket



GI-ACC-EPED15
15W Emergency
driver + controller



GI-ACC-EPJB
junction box



Optional Mount

GI-ACC-EPSF
slipfitter mount
& adapter



GI-ACC-EPAM
arm mount
& adapter



GI-ACC-EPAAM
adjustable arm
mount & adapter



Included Mount

GI-ACC-EPUB
u-bracket / trunnion



Features

- Rated for high temperatures, humidity, dust and vapor locations
- Various installation options for particular applications
- Light weight design
- Heavy duty & high impact resistant
- 0-10V Dimmable
- 50,000 Hour lifespan
- Tempered glass for high heat resistance

Additional Specs

Beam Angle: 120°

Warranty: 6 years

Ambient Temp (F): -40° - 141°

Efficacy: 130 lm/W

Classifications



II2 G Ex db eb mb IIC T5/T6 Gb
II2 D Ex tb op is IIIC T95/80°C Db



UL844 Standard
Class I, Division 2 Groups A, B, C, D
Class II, Division 1 Groups E, F, G
Class II, Division 2 Groups F, G
Class III



Other Rating
IP66/IP67
IK09

Materials

Mounting Bracket: Stainless steel

Surface: Explosion proof joint surface

Lens: Tempered glass

Housing: ADC12 aluminum



EXPLOSION PROOF FIXTURE

AVENGER SERIES (Q) | CLASS I DIVISION 2 | IECEX & ATEX



Dimensions

20W - 80W	15" x 16"
100W - 200W	15" x 18"

Case Quantity

1PC



Class I, Division 2

AVENGER SERIES

select your fixture

Replaces HID Consumption Lumens Color Temp Part Number Spec Sheet



20W 2,800 5000K ⚡ GI-EPQ-C100C-G5



40W 5,600 5000K ⚡ GI-EPQ-C175C-G5



60W 8,400 5000K ⚡ GI-EPQ-C250C-G5



80W 11,200 5000K ⚡ GI-EPQ-C250HOC-G5



100W 14,000 5000K ⚡ GI-EPQ-C400L-G5



150W 21,000 5000K ⚡ GI-EPQ-C750L-G5



200W 28,000 5000K ⚡ GI-EPQ-C1000ECL-G5




⚡ 100 - 277 V ⚡⚡ 277 - 480 V



Optional Accessories


GI-ACC-EPC
pendant chain 


GI-ACC-EPSSP
straight swing pipe 

GI-ACC-EPBP
bended pipe 

GI-ACC-EPJB
junction box 

GI-ACC-EPMS
motion sensor 


GI-ACC-EPPS
photocell sensor 

GI-ACC-EPMP5
motion + photocell sensor 

GI-ACC-EPQWG
wire guard 


GI-ACC-EPED15
15W Emergency driver + controller 


Optional Mount

GI-ACC-EP5MA
surface mounting arm 

GI-ACC-EP25WS
25° wall support 

GI-ACC-EP90WJB
90° wall support & junction box 

GI-ACC-EP90S
90° pole support 

GI-ACC-EP25S
25° pole support 

GI-ACC-EPH
hook mount 

Included Mount

GI-ACC-EPUB
u-bracket / trunnion 

Top hat is compatible with Eaton's Champ VMV series & Appleton's Contender series

Classifications



Marking ATEX
II 3G Ex nR IIC T6...T4 Gc
II 2D Ex tb IIIC T80°C...T130°C Db



Marking IECEx
Ex nR IIC T6...T4 Gc
Ex tb IIIC T80°C ...T130°C Db

Other Rating
IP66
IK10

Materials

Mounting Bracket: Aluminum SUS/304

Gaskets: Silicone

External Hardware: Stainless steel

Lens: Tempered glass

Housing: Die-cast aluminum with corro-free epoxy

Features

- ▶ Rated for high temperatures, humidity, dust and vapor locations
- ▶ Heavy duty & high impact resistant
- ▶ 0-10V Dimmable

Additional Specs

Beam Angle: 120°

Warranty: 6 years

Ambient Temp (F): -40° - 149°

Efficacy: 140 lm/W



EXPLOSION PROOF FIXTURE

AVENGER SERIES (QB) | CLASS I DIVISION 2 | IECEx & ATEX



Dimensions

5.02" x 9.69"

Case Quantity

1PC

Class I, Division 2

AVENGER SERIES



select your fixture

Replaces HID Consumption Lumens Color Temp Part Number Spec Sheet



20W

2,800



GI-EPQB-C100-C1D2



40W

5,600



GI-EPQB-C175-C1D2



50W

7,000



GI-EPQB-C175HO-C1D2



60W

8,400



GI-EPQB-C250-C1D2



80W

11,200



GI-EPQB-C250HO-C1D2



100W

14,000



GI-EPQB-C400-C1D2



⚡ 100 - 277 V



Optional Accessories

GI-ACC-EPC
pendant chain



GI-ACC-EPSSP
straight swing pipe



GI-ACC-EPBP
bended pipe




GI-ACC-EPJB
junction box




GI-ACC-EPMS
motion sensor



GI-ACC-EPPS
photocell sensor



GI-ACC-EPMPs
motion + photocell sensor



GI-ACC-EPQWG
wire guard



GI-ACC-EPED15
15W Emergency driver + controller



Features

- ▶ Rated for high temperatures, humidity, dust and vapor locations
- ▶ 0-10V Dimmable
- ▶ 100,000 Hour lifespan

Additional Specs

Beam Angle: 120°


Warranty: 6 years

Ambient Temp (F): -40° - 149°

Efficacy: 140 lm/W

Optional Mount


GI-ACC-EPsMA
surface mounting arm




GI-ACC-EP25WS
25° wall support




GI-ACC-EP90WJB
90° wall support & junction box



GI-ACC-EP90S
90° pole support



GI-ACC-EP25S
25° pole support




GI-ACC-EPH
hook mount




Included Mount




GI-ACC-EPUB
u-bracket / trunion



Top hat is compatible with Eaton's Champ VMV series & Appleton's Contender series

Classifications

 UL 844 Hazardous Locations
Class I, Division 2, Groups A, B, C, D
Class II, Division 1, Groups E, F, G
Class II, Division 2, Groups F, G
Class III

 ATEX Marking ATEX
 IEC II2 G Ex ec IIC T6 GC
II2 D Ex tb IIIC T80 Db IP66
 IECEx Marking IECEx
Ex ec IIC T6 GC
Ex tb IIIC T80 Db IP66

Other Rating
IK08

Materials

Hardware: Stainless steel

Lens: Tempered glass

Housing: Die-cast aluminum

EXPLOSION PROOF FIXTURE

A SERIES | CLASS I DIVISION 2 | IECEX & ATEX



IN STOCK

Dimensions

60W (compact)	10.2" x 6.3" x 8.31"
60W (large)	12.5" x 9.45" x 6.5"
80W - 100W	12.5" x 9.45" x 6.5"
150W - 200W	14.6" x 14.6" x 7.6"
400W	18.6" x 13.8" x 10.2"

Case Quantity

1PC

Class I, Division 2

A SERIES



select your fixture

Replaces HID Consumption Lumens Color Temp Part Number Spec Sheet



60W

8,400



GI-EPA-C250C-C1D2 (compact)
GI-EPA-C250L-C1D2 (large)



80W

11,200



GI-EPA-C250HO-C1D2



100W

14,000



GI-EPA-C400-C1D2
GI-EPA-C400-480C1D2



150W

21,000



GI-EPA-C400HO-C1D2
GI-EPA-C400HO-480C1D2



200W

28,000



GI-EPA-C1000EC-C1D2

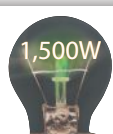


300W

42,000



GI-EPA-C1000-C1D2

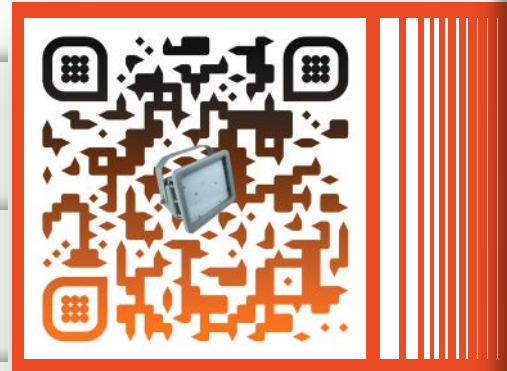


400W

56,600



GI-EPA-C1500-C1D2




⚡ 100 - 277 V ⚡⚡ 277 - 480 V




Optional Mount

GI-ACC-EPSMA
surface mounting arm




GI-ACC-EP25WS
25° wall support




GI-ACC-EP90WJB
90° wall support & junction box



GI-ACC-EP90S
90° pole support




GI-ACC-EP25S
25° pole support



GI-ACC-EPH
hook mount



GI-ACC-EPSF-AB
slipfitter for up to 150W




Optional Accessories

GI-ACC-EPC
pendant chain



GI-ACC-EPSSP
straight swing pipe



GI-ACC-EPBP
bended pipe



GI-ACC-EPJB
junction box



GI-ACC-EPED15
15W Emergency driver + controller



GI-ACC-EPAWG
wire guard



Included Mount

GI-ACC-EPUB
u-bracket / trunion



Features

- Rated for high temperatures, humidity, dust and vapor locations
- Light weight design
- Heavy duty & high impact resistant
- 0-10V Dimmable
- 100,000 Hour lifespan

Additional Specs

Beam Angle: 120°

Warranty: 6 years

Ambient Temp (F): -40° - 131°

Efficacy: 140 lm/W

Classifications



Marking UL844 (North American)
Class I, Division 2, Groups A, B, C, D
Class II, Division 1, Groups E, F, G
Class II, Division 2, Groups F, G
Class III



Marking ATEX
II 3 G Ex ec IIC T3 Gc
II 2 D Ex tb IIIC T103°C Db
II 2 G Ex mb eb IIC T3 Gb
II 2 D Ex tb IIC T125°C Db
Marking IECEx
Ex ec IIC T3C Gc
Ex tb IIIC T**°C Db
Ex mb eb II CT3C Gb
Ex tb IIC T125°C Db

Marine Marking
UL 1598, UL1598A, ABS
Other Rating
IP66, IK08

Materials

Mounting Bracket: Stainless steel

Hardware: Stainless steel

Lens: Tempered glass

Housing: Copper-free aluminum



EXPLOSION PROOF FIXTURE

HB SERIES | CLASS I DIVISION 2 | IECEX & ATEX | 1X4 & 1X2



Dimensions

1x4	49.2" x 12" x 3.7"
1x2	25.2" x 12" x 3.7"

Case Quantity

1PC



Class I, Division 2

HB SERIES

select your fixture

Replaces HID Consumption Lumens Color Temp Part Number Spec Sheet



40W

5,200



GI-EP14HB-C175-C1D2
(1x4)



60W

7,800



GI-EP14HB-C250-C1D2
(1x4)



80W

10,400



GI-EP14HB-C250HO-C1D2
(1x4)



120W

15,600



GI-EP14HB-C400-C1D2
(1x4)



20W

2,600



GI-EP21HB-C100-C1D2
(1x2)



40W

5,200



GI-EP21HB-C175-C1D2
(1x2)



60W

7,800



GI-EP21HB-C250-C1D2
(1x2)



80W

10,400



GI-EP21HB-C250HO-C1D2
(1x2)



⚡ 100 - 277 V



Optional Accessories

GI-ACC-EPJB
junction box



GI-ACC-EPED15
15W Emergency
driver + controlle



Optional Mount

GI-ACC-EP1CB
ceiling mounting
bracket for 1x2 & 1x4



Included Accessories

GI-ACC-EPPK
pendant mounting
kit



GI-ACC-EPRK
recessed mounting
kit



Class I, Division 2

HB SERIES

Features

- ▶ Rated for high temperatures, humidity, dust and vapor locations
- ▶ Light weight design
- ▶ Heavy duty & high impact resistant
- ▶ 0-10V Dimmable
- ▶ Smooth housing allows for easy cleaning/maintenance

Additional Specs

Beam Angle: 120°

Warranty: 6 years

Ambient Temp (F): -40° - 104°

Efficacy: 130 lm/W

Classifications



Class I Division 2, Groups A, B, C, D
Class II Division 1, Groups F, G
Class III
ATEX Marking
II2 G Ex eb mb db IIC T6/T5 Gb
II2 D Ex tb IIIC T80°C /T95°C Db IP66
IP66

Other Rating
IP66, IK10, UL Pending

Materials

Hardware: Stainless steel

Lens: Polycarbonate

Housing: SPCC +AL6063
PC cover



EXPLOSION PROOF FIXTURE

HB SERIES | CLASS I DIVISION 2 | IECEx & ATEX | 2X2 & 2X4



Dimensions

2x2	25.2" x 23.8" x 3.7"
2x4	49.2" x 23.8" x 3.7"

Case Quantity

1PC



Class I, Division 2

HB SERIES

select your fixture

Replaces HID Consumption Lumens Color Temp Part Number Spec Sheet



40W

5,200



GI-EP22HB-C175-C1D2
(2x2)



60W

7,800



GI-EP22HB-C250-C1D2
(2x2)



80W

10,400



GI-EP22HB-C250HO-C1D2
(2x2)



120W

15,600



GI-EP22HB-C400-C1D2
(2x2)



60W

7,800



GI-EP24HB-C250-C1D2
(2x4)



80W

10,400



GI-EP24HB-C250HO-C1D2
(2x4)



100W

13,000



GI-EP24HB-C400-C1D2
(2x4)



120W

15,600



GI-EP24HB-C400HO-C1D2
(2x4)



160W

20,800



GI-EP24HB-C750-C1D2
(2x4)



240W

31,200



GI-EP24HB-C1000EC-C1D2
(2x4)



⚡ 100 - 277 V



Optional Accessories

GI-ACC-EPJB
junction box



GI-ACC-EPED15
15W Emergency
driver + controlle



Optional Mount

GI-ACC-EP2CB
ceiling mounting
bracket for 2x2 & 2x4



Included Accessories

GI-ACC-EPPK
pendant mounting
kit



GI-ACC-EPRK
recessed mounting
kit



Class I, Division 2

HB SERIES

Features

- ▶ Rated for high temperatures, humidity, dust and vapor locations
- ▶ Light weight design
- ▶ Heavy duty & high impact resistant
- ▶ 0-10V Dimmable
- ▶ Smooth housing allows for easy cleaning/maintenance

Additional Specs

Beam Angle: 120°
Warranty: 6 years
Ambient Temp (F): -40° - 104°
Efficacy: 130 lm/W

Classifications



Class | Division 2, Groups A,B,C,D
Class II Division 1, Groups F,G
Class III
ATEX Marking
II2 G Ex eb mb db IIC T6/T5 Gb
II2 D Ex tb IIIC T80°C /T95°C Db IP66
IP66

Other Rating
IP66, IK10, UL Pending

Materials

Hardware: Stainless steel
Lens: Polycarbonate
Housing: SPCC +AL6063
PC cover



EXPLOSION PROOF FIXTURE

FLF SERIES | CLASS I DIVISION 2



Dimensions

40W (2FT) 26.38" x 3.75" x 6.30"

60W (4FT) 50" x 3.75" x 6.30"

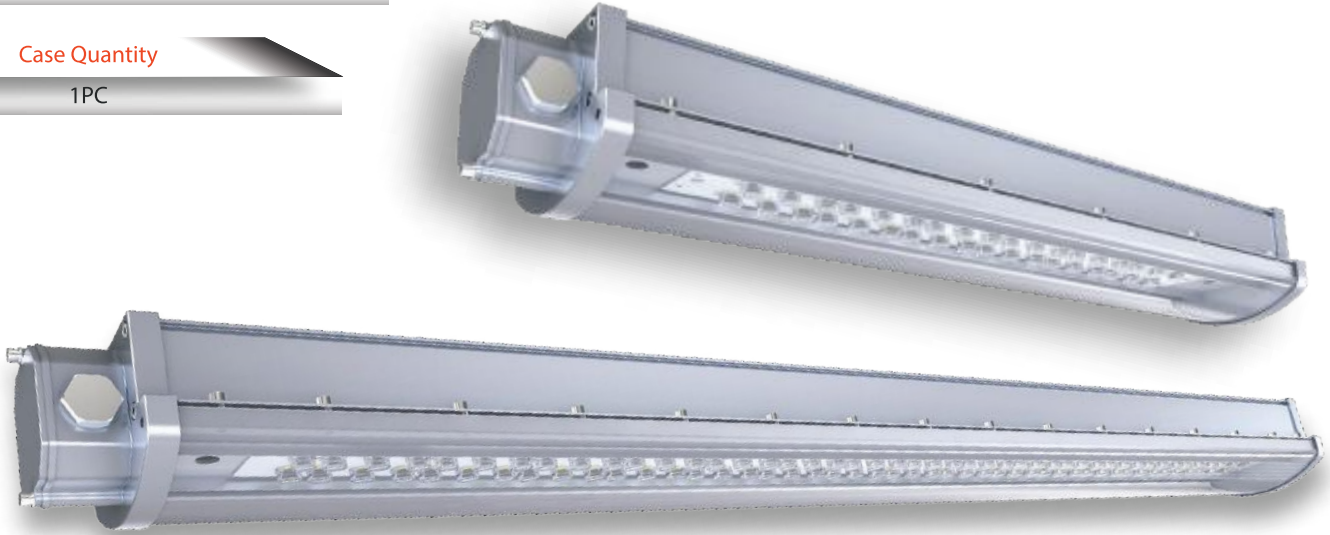
Case Quantity

1PC

IN STOCK

Class I, Division 2

FLF SERIES



select your fixture

Replaces HID

Consumption

Lumens

Color Temp

Part Number

Spec Sheet



40W

5,600



GI-EPFLF-2C175-C1D2



60W

8,400



GI-EPFLF-4C250-C1D2



⚡ 100 - 277 V



Optional Accessories

GI-ACC-EPJB
junction box



GI-ACC-EPED15
15W Emergency
driver + controller



Optional Mount

GI-ACC-EPFLF-PM
pole mount



Included Mount

GI-ACC-EPPK
pendant mounting kit



Features

- ▶ Rated for high temperatures, humidity, dust and vapor locations
- ▶ Light weight design
- ▶ Heavy duty & high impact resistant
- ▶ 0-10V Dimmable
- ▶ Smooth housing allows for easy cleaning/maintenance

Additional Specs

Beam Angle: 120°

Warranty: 6 years

Ambient Temp (F): -40° - 149°

Efficacy: 140 lm/W

Classifications



Marking UL844 (North American)
Class I, Division 2, Groups A, B, C, D

Other Rating
IP66, IK10

Materials

Hardware: Stainless steel

Lens: Polycarbonate

Housing: Copper-free aluminum



EXPLOSION PROOF FIXTURE

H SERIES | CLASS I DIVISION 2 | IECEX & ATEX



Dimensions

40W (compact)	24" x 4.7" x 9.5"
40W (large)	47" x 4.7" x 9.5"
60W & 80W	47" x 4.7" x 9.5"

Case Quantity

1PC

IN STOCK



Class I, Division 2

H SERIES

select your fixture

Replaces HID Consumption Lumens Color Temp Part Number Spec Sheet



40W

5,600



GI-EPH-C175C-C1D2
(compact)

GI-EPH-C175L-C1D2
(large)



60W

8,400



GI-EPH-C250-C1D2



80W

11,200



GI-EPH-C250HO-C1D2




⚡ 100 - 277 V




Optional Mount


GI-ACC-EPSMA
surface mounting arm




GI-ACC-EP25WS
25° wall support




GI-ACC-EP90WJB
90° wall support &
junction box



GI-ACC-EP90S
90° pole support



GI-ACC-EP25S
25° pole support



GI-ACC-EPH
hook mount




Optional Accessories

GI-ACC-EPC
pendant chain



GI-ACC-EPSSP
straight swing pipe



GI-ACC-EPBP
bended pipe



GI-ACC-EPJB
junction box




GI-ACC-EPED15
15W Emergency
driver + controller



Included Mount

GI-ACC-EPUB
u-bracket / trunnion



Class I, Division 2

H SERIES

Features

- Rated for high temperatures, humidity, dust and vapor locations
- Light weight design
- Heavy duty & high impact resistant
- 0-10V Dimmable
- Smooth housing allows for easy cleaning/maintenance

Additional Specs

Beam Angle: 120°

Warranty: 6 years

Ambient Temp (F): -40° - 140°

Efficacy: 130 lm/W

Classifications



Marking UL844 (North American)
Class I, Division 2, Groups A, B, C, D
Class II, Division 1, Groups E, F, G
Class II, Division 2, Groups F, G
Class III



Marking ATEX
II3 G Ex ec IIC T5/T6 Gc
II2 D Ex tb IIIC T80/100°C Db IP66



Marking IECEx
Ex ec IIC T5/T6 Gc
Ex tb IIIC T80/100°C Db IP66

Marking Marine
UL1598, UL1598A
ABS

Other Rating
IP 66, IK10

Materials

Mounting Bracket: Stainless steel

Hardware: Stainless steel

Lens: Polycarbonate

Housing: Copper free aluminum



EXPLOSION PROOF FIXTURE

R SERIES | CLASS I DIVISION 2 | IECEx & ATEX



IN STOCK 

Dimensions

30W 29.5" x 7.9" x 4.7"

50W 53" x 7.9" x 4.7"

Case Quantity

1PC

Class I, Division 2

R SERIES



select your fixture

Replaces HID Consumption Lumens Color Temp Part Number Spec Sheet



30W

4,200



GI-EPR-C175-C1D2




50W

6,500



GI-EPR-C250-C1D2



 100 - 277 V



Optional Accessories

GI-ACC-EPJB
junction box



GI-ACC-EPED15
15W Emergency
driver + controller



Optional Mount

GI-ACC-EPSMA
surface mounting arm



GI-ACC-EPFLF-PM
pole mount



Included Mount

GI-ACC-EPCMK
ceiling mounting kit



GI-ACC-EPRMW
steel rope
mounting wire



Class I, Division 2

R SERIES

Features

- Rated for high temperatures, humidity, dust and vapor locations
- 2 Cable entry points on each side
- Heavy duty & high impact resistant
- 0-10V Dimmable
- Smooth housing allows for easy cleaning/maintenance

Additional Specs

Beam Angle: 120°

Warranty: 6 years

Ambient Temp (F): -40° - 140°

Efficacy: 140 lm/W

Classifications



Marking UL844(North American)
Class I, Division 2, Groups A, B, C, D
Class II, Division 1, Groups E, F, G
Class II, Division 2, Groups F, G Class III



Marking ATEX
II 2 G Ex db eb mb IIC T5/T6 Gb
II 2 D Ex tb IIIC T95°C/T85°C Db IP66



Marking IECEx
Ex db eb mb IIC T5/T6 Gb
Ex tb IIIC T95°C/T85°C Db

Marking Marine
UL 1598
UL 844

Other Rating
IP 66, IK10

Materials

Gasket: Silicone rubber

Hardware: Stainless steel

Lens: Polycarbonate

Housing: Stainless steel



EXPLOSION PROOF FIXTURE

C SERIES | CLASS I DIVISION 1 | IECEx & ATEX



IN STOCK

Dimensions

60W / 80W	14.09" x 13.03" x 9.88"
100W / 150W	16" x 13.46" x 10"
250W	14.29" x 17.44" x 23.22"

Case Quantity

1PC

Class I, Division 1

C SERIES



select your fixture

Replaces HID Consumption Lumens Color Temp Part Number



60W

8,400



GI-EPC-C175-G4



80W

11,200



GI-EPC-C250-G4



100W

14,000



GI-EPC-C400-G4



150W

21,000



GI-EPC-C400HO-G4

GI-EPC-C400HO-480G4

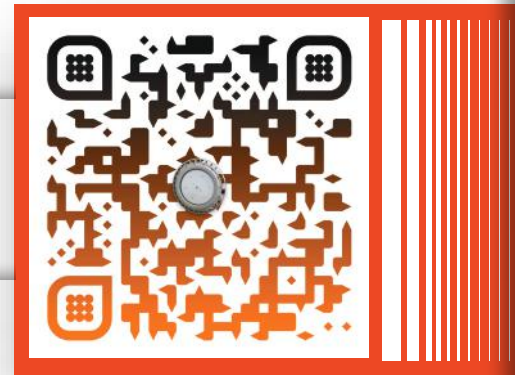


250W

28,000



GI-EPC-C1000-G4



⚡ 100 - 277 V ⚡⚡ 277 - 480 V



Optional Accessories

GI-ACC-EPC
pendant chain



GI-ACC-EPSSP
straight swing pipe



GI-ACC-EPBP*
bended pipe



GI-ACC-EPJB
junction box



GI-ACC-EPED15
15W Emergency driver + controller



GI-ACC-EPBWG
wire guard



GI-ACC-EPCG
globe



Features

- Rated for high temperatures, humidity, dust and vapor locations
- Light weight design
- Heavy duty & high impact resistant
- 0-10V Dimmable
- Smooth housing allows for easy cleaning/maintenance

Additional Specs

Beam Angle: 120°


Warranty: 6 years

Ambient Temp (F): -40° - 140°


Efficacy: 140 lm/W

Optional Mount


GI-ACC-EPsMA
surface mounting arm




GI-ACC-EP25WS
25° wall support




GI-ACC-EP90WJB
90° wall support & junction box




GI-ACC-EP90S
90° pole support



GI-ACC-EP25S
25° pole support




GI-ACC-EPH
hook mount




Included Mount

GI-ACC-EPUB
u-bracket / trunion




Classifications


Marking UL844 (North American)
Class I, Division 1, Groups C, D
Class I, Division 2, Groups A, B, C, D
Class II, Division 1, Groups E, F, G
Class II, Division 2, Groups F, G
Class III



Marking ATEX
II2 G Ex db op is IIB T5/T6 Gb
II2 D Ex op is tb IIIC T80/90C Db IP66



Marking IECEx
Ex db op is IIB T5/T6 Gb
Ex op is tb IIIC T80/90C Db IP66



Marine Marking
UL 1598, UL1598A
ABS

Other Rating
IP 66, IK 10

Materials

Mounting Bracket: Stainless steel

Hardware: Stainless steel

Lens: Tempered glass

Housing: Copper-free aluminum

EXPLOSION PROOF FIXTURE

D SERIES | CLASS I DIVISION 1



Dimensions

100W / 150W 1.57" x 11.2" x 7.6"

Case Quantity

1PC

IN STOCK

Class I, Division 1

D SERIES



select your fixture

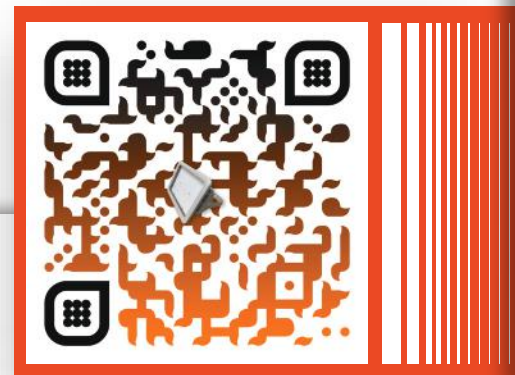
Replaces HID Consumption Lumens Color Temp Part Number Spec Sheet



100W 14,000 5000K ⚡ GI-EPD-C400-C1D2



150W 21,000 5000K ⚡ GI-EPD-C400HO-G4
⚡⚡ GI-EPD-C400HO-480G4




⚡ 100 - 277 V ⚡⚡ 277 - 480 V




Optional Mount


GI-ACC-EPSMA
surface mounting arm




GI-ACC-EP25WS
25° wall support




GI-ACC-EP90WJB
90° wall support & junction box




GI-ACC-EP90S
90° pole support



GI-ACC-EP25S
25° pole support



GI-ACC-EPH
hook mount



Optional Accessories

GI-ACC-EPC
pendant chain



GI-ACC-EPSSP
straight swing pipe



GI-ACC-EPBP*
bended pipe




GI-ACC-EPJB
junction box



GI-ACC-EPED15
15W Emergency driver + controller




GI-ACC-EPDWG
wire guard



Included Mount

GI-ACC-EPUB
u-bracket / trunion



Class I, Division 1

D SERIES

Features

- Rated for high temperatures, humidity, dust and vapor locations
- Light weight design
- Heavy duty & high impact resistant
- 0-10V Dimmable
- Smooth housing allows for easy cleaning/maintenance

Additional Specs

Beam Angle: 120°

Warranty: 6 years

Ambient Temp (F): -40° - 131°

Efficacy: 140 lm/W

Classifications



Marking UL844(North American)
Class I, Div. 1, Groups C, D
Class I, Div. 2, Groups A,B,C,D
Class II, Div. 1, Groups E,F,G
Class II, Div. 2, Groups F,G
Class III

Marine Marking
UL 1598A
ABS

Other Rating
IP66, IK10

Materials

Mounting Bracket: Stainless steel

Hardware: Stainless steel

Lens: Tempered glass

Housing: Copper-free aluminum



EXPLOSION PROOF FIXTURE

ES SERIES | CLASS I DIVISION 1



Dimensions

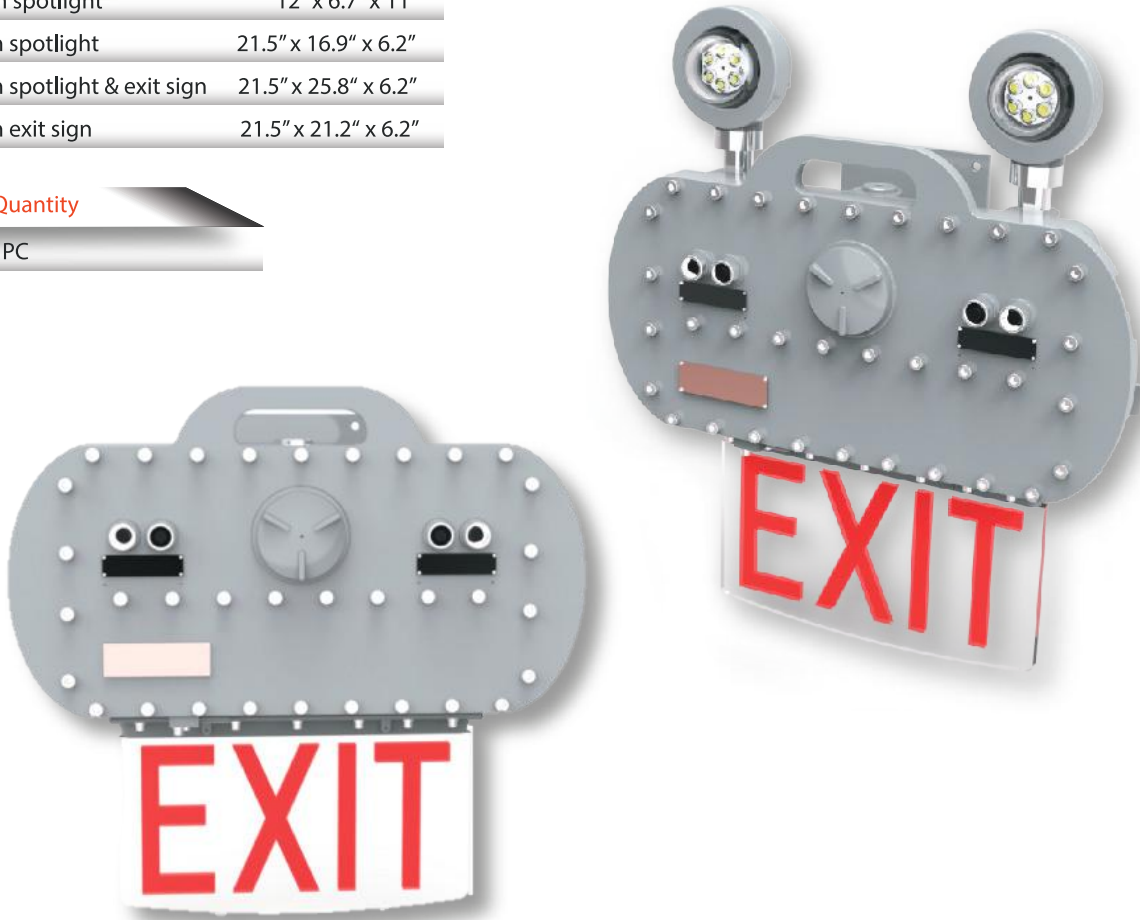
Square with spotlight	12" x 6.7" x 11"
Round with spotlight	21.5" x 16.9" x 6.2"
Round with spotlight & exit sign	21.5" x 25.8" x 6.2"
Round with exit sign	21.5" x 21.2" x 6.2"

Case Quantity

1PC

Class I, Division 1

ES SERIES



select your fixture

Replaces HAL Consumption Lumens Shape Color Temp Part Number Spec Sheet



10W

900



square

GI-EPER-C50S-C1D1
(with spotlight)

round

GI-EPER-C50S-C1D1
(with spotlight)

round

GI-EPER-C50ES-C1D1
(with exit sign & spotlight)

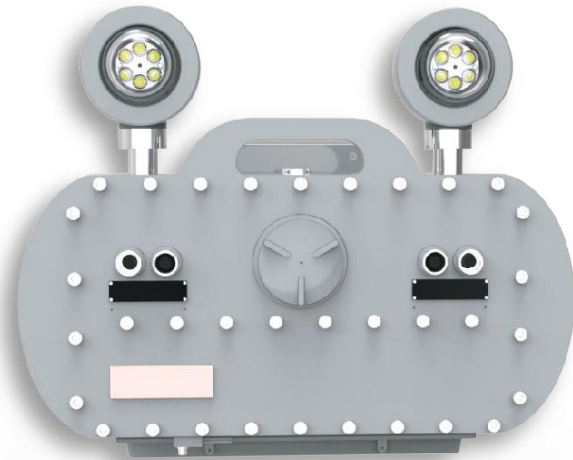
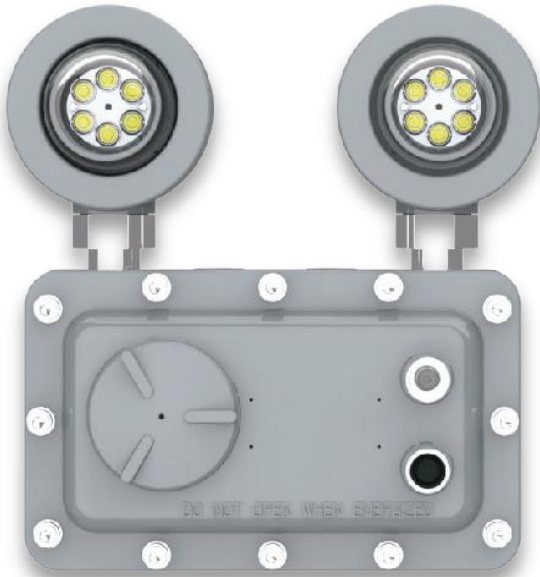
round

GI-EPER-C50E-C1D1
(with exit sign)



⚡ 100 - 277 V





Features

- Rated for high temperatures, humidity, dust and vapor locations
- Spotlight can be adjusted horizontally or vertically
- Built-in battery backup with 3-hour emergency operation
- 0-10V Dimmable
- Includes 3/4" NPT or M25 conduit hubs

Additional Specs

Beam Angle: 120°

Warranty: 6 years

Ambient Temp (F): -40° - 140°

Efficacy: 90 lm/W

Classifications



Class I, Division 1, Groups C, D
 Class I, Division 2, Groups A, B, C, D
 Class II, Division 1, Groups E, F, G
 Class II, Division 2, Groups F, G
 Class III

UL 844 Hazardous Locations
 UL 924 Emergency Lighting
 UL 1598A Marine Outside Type

UL 1598 Wet Locations
 UL 8750 LED Safety
 ETL, NEMA 4X

Other Rating
 IP66, IK10

Materials

Hardware: Stainless steel

Housing: A360 die-cast aluminum



EXPLOSION PROOF FIXTURE

G SERIES | CLASS I DIVISION 1



Dimensions

6.8" x 6.8" x 16.1"

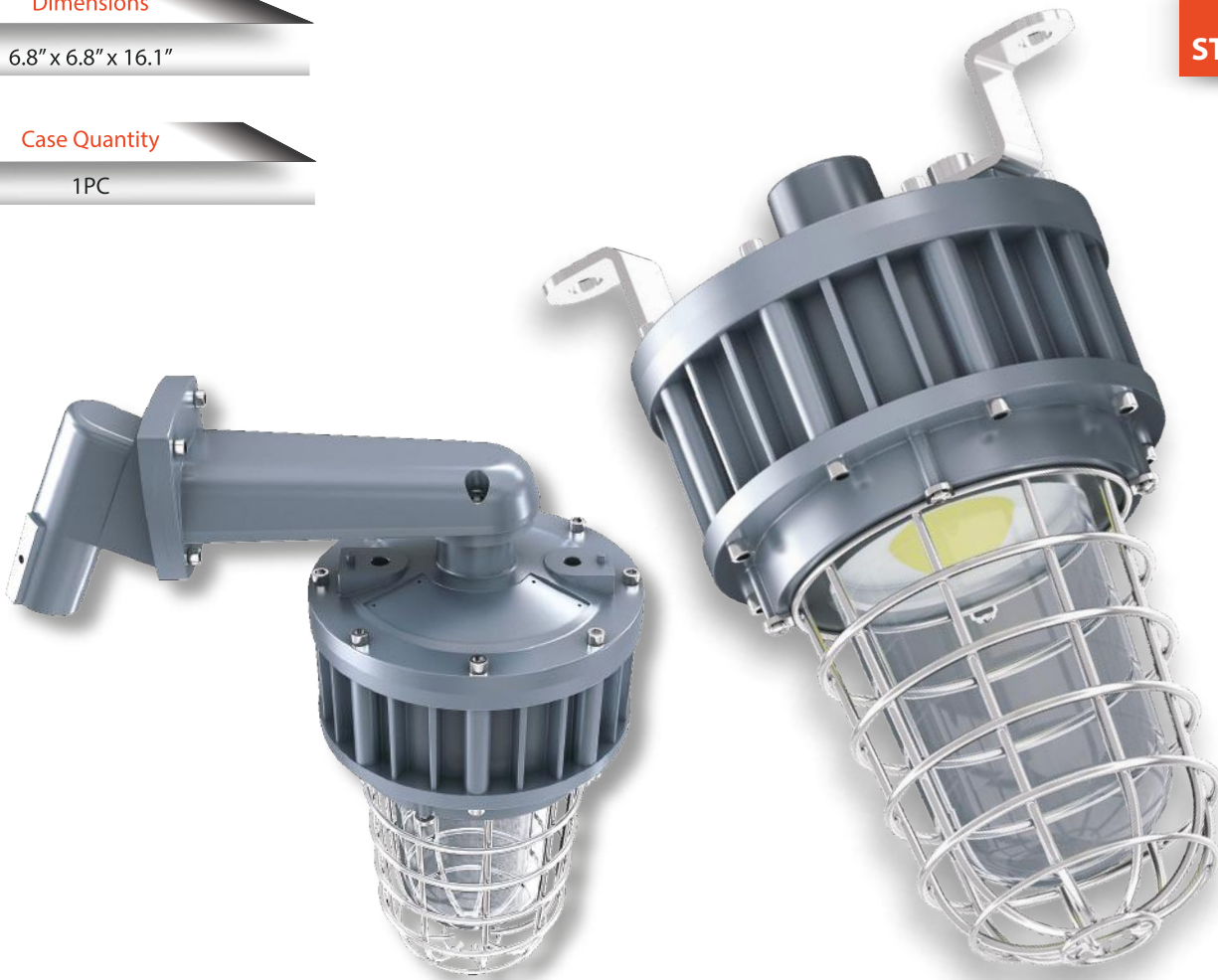
Case Quantity

1PC

IN STOCK

Class I, Division 1

G SERIES



select your fixture

Replaces HID Consumption Lumens Color Temp Part Number Spec Sheet



150W

30W

4,200



GI-EPG-C150-G4



175W

40W

5,600



GI-EPG-C175-G4




⚡ 100 - 277 V



Optional Mount

GI-ACC-EP SMA
surface mounting arm




GI-ACC-EP25WS
25° wall support




GI-ACC-EP90WJB
90° wall support & junction box



GI-ACC-EP90S
90° pole support



GI-ACC-EP25S
25° pole support



GI-ACC-EPH
hook mount



Optional Accessories

GI-ACC-EPC
pendant chain



GI-ACC-EPSSP
straight swing pipe



GI-ACC-EPBP*
bended pipe




GI-ACC-EPJB
junction box



GI-ACC-EPEDK15
15W Emergency back-up kit




GI-ACC-EPED15C
conduit for 15W Emergency back-up kit




Included Mount

GI-ACC-EPUB
u-bracket / trunion



Included Accessories

GI-ACC-EPPG
protective guard



GI-ACC-EPG
globe



GI-ACC-EPHS
heat sink



Features

- Rated for high temperatures, humidity, dust and vapor locations
- Spotlight can be adjusted horizontally or vertically
- Built-in battery backup with 3-hour emergency operation
- 0-10V Dimmable
- Includes 3/4" NPT or M25 conduit hubs

Additional Specs

Beam Angle: 120°

Warranty: 6 years

Ambient Temp (F): -40° - 149°

Efficacy: 140 lm/W

Classifications



Marking UL844 (North American)
Class I, Division 1, Groups C, D
Class I, Division 2, Groups A, B, C, D
Marking UL844 (North American)
Class II, Division 1, Groups E, F, G
Class II, Division 2, Groups F, G
Class III

Marine Marking
UL 1598, UL1598A
ABS
IP66
Impact Resistance (Shock): IK10

Other Rating
IP66, IK10

Materials

Mounting Bracket: Stainless steel

Bolts: Stainless steel

Diffuser: Tempered glass

Housing: Copper free aluminum



EXPLOSION PROOF FIXTURE

I SERIES | CLASS I DIVISION 1 | IECEX & ATEX



IN STOCK

Dimensions

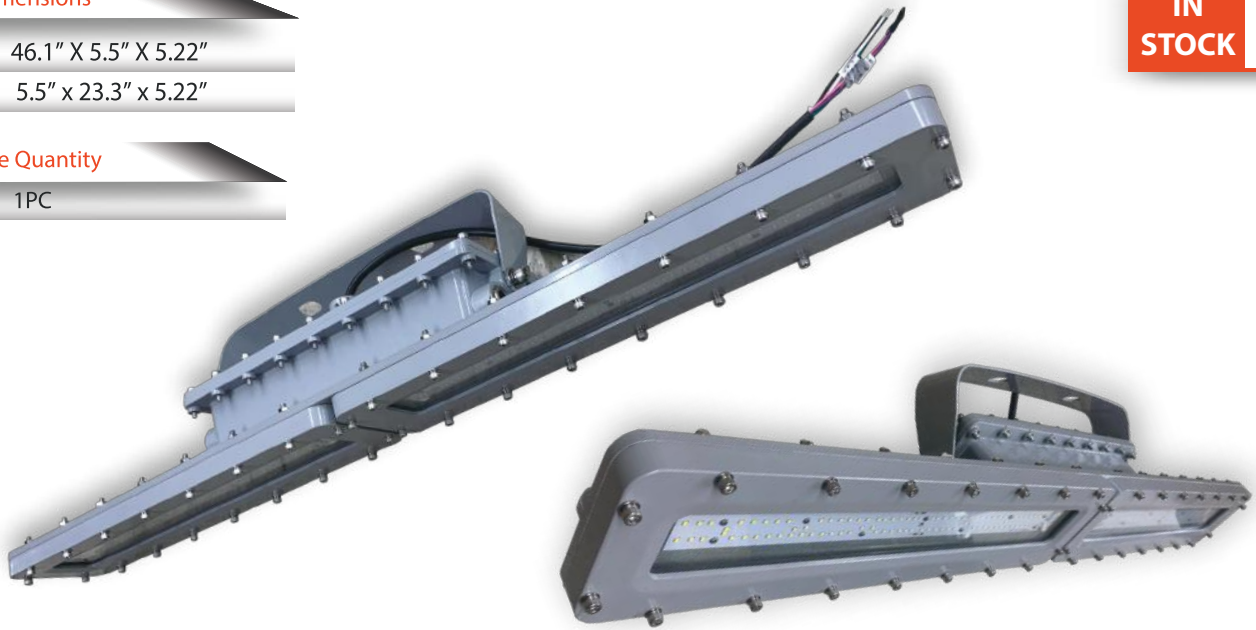
4FT	46.1" X 5.5" X 5.22"
2FT	5.5" x 23.3" x 5.22"

Case Quantity

1PC

Class I, Division 1

I SERIES



select your fixture

Replaces HID Consumption Lumens Color Temp Part Number



40W

5,600



GI-EPI-4C175-G4
(4FT)



50W

7,000



GI-EPI-2C175HO-G4
(2FT)



60W

8,400



GI-EPI-4C250-G4
(4FT)



80W

12,000



GI-EPI-4C400-G4
(4FT)



100W

14,000



GI-EPI-4C400HO-G4
(4FT)




⚡ 100 - 277 V




Optional Mount


GI-ACC-EPSMA
surface mounting arm




GI-ACC-EP25WS
25° wall support




GI-ACC-EP90WJB
90° wall support & junction box



GI-ACC-EP90S
90° pole support



GI-ACC-EP25S
25° pole support



GI-ACC-EPH
hook mount




Optional Accessories

GI-ACC-EPC
pendant chain



GI-ACC-EPSSP
straight swing pipe



GI-ACC-EPBP
bended pipe



GI-ACC-EPJB
junction box




GI-ACC-EPED15
15W Emergency driver + controller



Included Mount

GI-ACC-EPUB
u-bracket / trunnion



Class I, Division 1

I SERIES

Features

- ▶ Rated for high temperatures, humidity, dust and vapor locations
- ▶ Light weight design
- ▶ Heavy duty & high impact resistant
- ▶ 0-10V Dimmable
- ▶ Smooth housing allows for easy cleaning/maintenance

Additional Specs

Beam Angle: 120°

Warranty: 6 years

Ambient Temp (F): -40° - 140°

Efficacy: 140 lm/W

Classifications

Marking UL844 (North American)
Class I, Division 1, Groups C, D
Class I, Division 2, Groups A, B, C, D
Marking UL844 (North American)
Class II, Division 1, Groups E, F, G
Class II, Division 2, Groups F, G
Class III



Marking ATEX
II2 G Ex db IIB T4 Gb
II2 D Ex tb IIIC T63.5°C Db IP66
Marking IECEx
Ex db IIB T4 Gb
Ex tb IIIC T63.5°C Db IP66

Marine Marking
UL 1598
UL1598A, ABS

Other Rating
IP66, IK10

Materials

Mounting Bracket: Stainless steel

Bolts: Stainless steel

Diffuser: Tempered glass

Housing: Copper free aluminum



EXPLOSION PROOF FIXTURE

J SERIES | CLASS I DIVISION 1



Dimensions

4.57" x 16.42" x 16.47"

Case Quantity

1PC

Class I, Division 1

J SERIES



select your fixture

Replaces HID Consumption Lumens Color Temp Part Number Spec Sheet



30W	3W	300	5000K	⚡	GI-EPJ-C30R-C1D1 (red lettering)
					GI-EPJ-C30G-C1D1 (green lettering)



50W	5W	500	5000K	⚡	GI-EPJ-C50R-C1D1 (red lettering)
					GI-EPJ-C50G-C1D1 (green lettering)



⚡ 100 - 277 V



Optional Mount

GI-ACC-EPH
hook mount



Optional Accessories

GI-ACC-EPC
pendant chain



GI-ACC-EPSSP
straight swing pipe



GI-ACC-EPJB
junction box



Included Accessories

GI-ACC-EPWMS
wall mounting screws



Features

- Rated for high temperatures, humidity, dust and vapor locations
- Built-in battery backup with 3-hour emergency operation
- 0-10V Dimmable
- Heavy duty & high impact resistant

Additional Specs

Beam Angle: 120°
Warranty: 6 years
Ambient Temp (F): -40° - 140°
Efficacy: 95 lm/W

Classifications



Class I, Division 1, Groups B, C, D
Class I, Division 2, Groups A, B, C, D
Class II, Division 1, Groups E, F, G
Class II, Division 2, Groups F, G
Class III

UL Marking
UL924 | UL844 | IP66
UL 121201/CSA NO.213
CSA C22.2 No.137-18
Temperature Class (T-Rating)-T6

Other Rating
IP66, IK10

Materials

Mounting Sling: Stainless steel

Exit Sign: Stainless steel

Hardware: Stainless steel

Gasket: One-piece silicone

Housing: Copper free aluminum



EXPLOSION PROOF FIXTURE

RA SERIES | CLASS I DIVISION 1 | IECEx & ATEX



Dimensions

14" x 8.1"

Case Quantity

1PC

IN STOCK



Class I, Division 1

RA SERIES

select your fixture

Replaces HID

Consumption

Lumens

Color Temp

Part Number

Spec Sheet



19.5W / 5W /

1,600 / 410



GI-Epra-C200-C1D1



100 - 277 V 277 - 480 V Power Selectable





Optional Accessories

GI-ACC-EPRAB
replacement battery



Included Accessories

GI-ACC-EPRAC
battery & charger



Class I, Division 1

RA SERIES

Features

- ▶ 3 power settings: 19.5W, 5W & emergency flashing (hold power button for 10 seconds to activate)
- ▶ Rated for high temperatures, humidity, dust and vapor locations
- ▶ Low battery warning light - indicates at 30 mins left
- ▶ 0-10V Dimmable
- ▶ Multiple deployment positions
- ▶ Deployable mast with 360° rotation

Classifications



ATEX Marking:
II 1G Ex ia IIC T4 Ga



IECEx Marking:
Ex ia IIC T4 Ga



UL913 Marking (North American):
Class I, Division 1, Groups A, B, C and D, T4
Ex ia IIC T4 Ga
Class I, Zone 0, AEx ia IIC T4 Ga

Housing: IP20
Lamp head and power box: IP65
IK08

Additional Specs

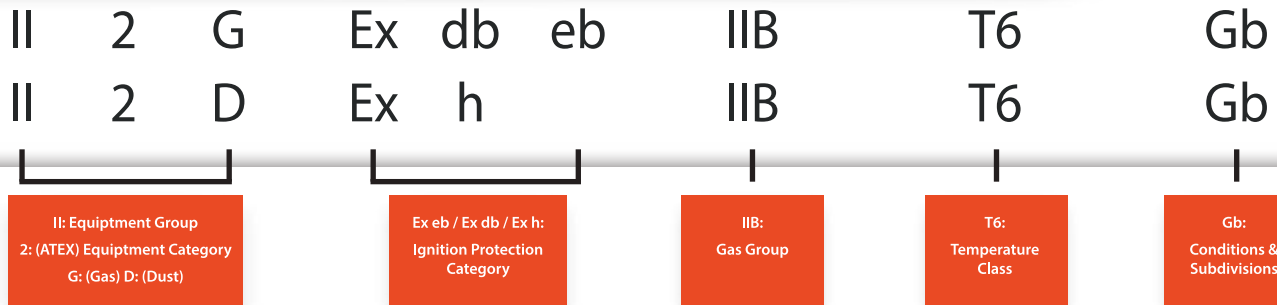
Beam Angle: 125°
Warranty: 6 years
Ambient Temp (F): -20° - 40°
Efficacy: 82 lm/W

Materials

Lens: Polycarbonate
Lamp Head: Aluminum alloy
Housing: Polycarbonate



IECEX & ATEX STRING



CLASSES

Class	Class Description
-------	-------------------

Class 1	Flammable gases & vapors
Class 2	Combustable dust
Class 3	Ignitable fibers & flyings

DIVISIONS

Division	Division Description
----------	----------------------

Division 1	Gas ignitable concentrations of combustible dust can exist, under normal conditions
Division 2	Ignitable concentrations of combustible dust are unlikely to exist normally

ZONES

Class	Class Description
-------	-------------------

Zone 0	Gas & vapor is present for longer than 1,000 hours
Zone 1	Gas & vapor is present for 10 - 1,000 hours
Zone 2	Gas & vapor is present for less than 10,000 hours

IGNITION PROTECTION CATEGORIES

Ignition Protection Categories	I.D.	Zone(s)	Safety Principal
Increased safety	Ex eb	Zone 1	No arcs, sparks or hot surfaces
Flame-proof	Ex db	Zone 1	Contain the explosion & extinguish the flame
Constructional safety	Ex h	Zone 1 - Zone 2	Ignition hazards mitigated by good engineering methods

GAS GROUPS

Gas Groups	Representative Test Gas
IIA	Propane
IIB	Ethylene

Gas Group IIB includes all gases for group IIA

BREAKDOWN OF EXPLOSION PROOF CERTIFICATIONS

GROUPS

Group I	Group II	Group III	Group A	Group B
Contains explosive gases that naturally occur in mines	Contains explosive gases found in atmospheres other than mines (see group A)	Contains explosive gases found in dust atmospheres (see group B)	Atmospheres containing propane, acetone, benzene, butane, methane, petrol, hexane, paint solvents or gases & vapors of equivalent hazard	Atmospheres containing ethylene, propylene oxide, ethylene oxide, butadiene, cyclopropane, ethyl ether, or gases & vapors of equivalent hazard

Certification String

TEMPERATURE CLASSES (IIA)

Class: T1 ▲ Class: T2 ▲ Class: T3 ▲ Class: T4 ▲ Class: T5 ▲ Class: T6 ▲

Acetone	i-Amylacetate	Gasolines	Acetyldehyde	Ex eb	Ex eb
Ammoniac	n-Butane	Diesel			
Benzene	n-Butyl	Fuels			
Acetic Acid	Alcohol	Heating			
Ethane		Oils			
Ethyl		n-Hexane			
Acetate					
Chloride					
Constructional safety					
Methane					
Methanol					

➤ Gas Group IIB, Class T6 includes all specifications for Gas Group IIA, Class T1-T6 & Gas Group IIB, T1-T6

KEY Maximum Surface temperature: ▲ 450° C ▲ 300° C ▲ 200° C ▲ 135° C ▲ 100° C ▲ 85° C

CONDITIONS & SUBDIVISIONS

Flammable Materials	Temporary Behavior of Explosive Atmosphere	Classification of Hazardous areas	Group as Defined in Directive 2014/34/EU	Equipment Group as Defined in EN 60079-0	Equipment Protection Level as Defined in EN 60079-0
Gases / Vapors	Is continuously present for long periods of time	Zone 0	1G	II	Ga
	Occasionally arises in normal operation	Zone 1	2G or 1G	II	Gb or Ga
	Is not likely to arise in normal operation, or if it does, will persist for a short time only	Zone 2	3G or 2G or 1G	II	Gc or Gb or Ga



UL MARKING

UL Mark: A product has been certified to meet scientific, safety, quality or security standards.

MARINE MARKING

UL's marks for the marine certification service appear on products that have been evaluated specifically for marine use. Products bearing these marks have been evaluated to UL's published marine Standards for Safety and other applicable standards and codes. Requirements for marine certification address hazards that can occur as a result of exposure to harsh marine environments such as vibration, impact, ignition protection, water ingress and salt spray corrosion common on pleasure craft and boats. Examples of the types of products carrying UL's marks for marine certification include alternators, battery chargers/power inverters, navigation lights, fuel tanks, filters and pumps.

IP RATING (INGRESS PROTECTION OR INTERNATIONAL PROTECTION)

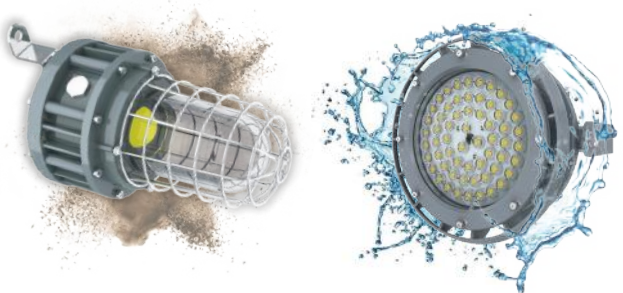
IP Rating: Indicates how well a product is protected against water, moisture, dust & dirt.

IP RATING - FIRST DIGIT (DUST INGRESS)

Level	Ingress Limit	Effective Against
0	*	No protection
1	>50 mm diameter	Any large surface of the body, such as the back of a hand, but no protection against deliberate contact with a body part
2	>12.5 mm diameter	Fingers or similar objects
3	>2.5 mm diameter	Tools, thick wires, etc.
4	>1 mm diameter	Solid objects such as most wires, screws, large insects, nails, etc.
5	Dust protected	Partial protection against dust that may harm equipment
6	Dust -tight	No ingress of dust

IP RATING - SECOND DIGIT (LIQUID INGRESS)

Level	Ingress Limit	Effective Against
0		No protection
1	Dripping water	Vertically falling droplets such as falling water
2	Dripping water when tilted up to 15°	Vertically falling droplets deflected up to 15°
3	Spraying water	Spraying water up to 60°
4	Splashing water	Water splashing from any direction
5	Water jetting	Water projected by a nozzle (6.3mm) from any direction
6	Powerful water	Direct high-pressure jets (12.5 mm nozzle)
7	Temporary immersion (up to 1 mm)	Full immersion up to 30 minutes at depths between 15 cm & 1 meter
8	Continuous immersion	Continuous immersion in water under conditions which shall be specified by the manufacturer
9(K)	High-pressure & high-temperature water jetting	High-pressure & high-temperature jet sprays, wash downs, or steam cleaning procedures



IK RATING (IMPACT PROTECTION)

IK Rating: Internationally Indicates the degree of protection provided by enclosures, for electrical equipment against external mechanical impacts.

IK RATING

IK Code Protection Level

IK00	There is no Protection
IK01	Protected against 0.14 joules of impact (this is the equivalent to the impact of a 0.25kg mass dropped from 56mm above)
IK02	Protected against 0.2 joules of impact (this is the equivalent to the impact of a 0.25kg mass dropped from 80mm above)
IK03	Protected against 0.35 joules of impact (this is the equivalent to the impact of a 0.2kg mass dropped from 140mm above)
IK04	Protected against 0.5 joules of impact (the equivalent to the impact of a 0.25kg mass dropped from 200mm above the impacted surface)
IK05	Protected against 0.7 joules of impact (the equivalent to the impact of a 0.25kg mass dropped from 280mm above the impacted surface)
IK06	Protected against 1 joules of impact (the equivalent to the impact of a 0.25kg mass dropped from 400mm above the impacted surface)
IK07	Protected against 2 joules of impact (the equivalent to the impact of a 0.5kg mass dropped from 400mm above the impacted surface)
IK08	Protected against 5 joules of impact (the equivalent to the impact of a 1.7kg mass dropped from 300mm above the impacted surface)
IK09	Protected against 10 joules of impact (the equivalent to the impact of a 5kg mass dropped from 200mm above the impacted surface)
IK10	Protected against 20 joules of impact (the equivalent to the impact of a 5kg mass dropped from 400mm above the impacted surface)

ABS CERTIFICATION

The American Bureau of Shipping (ABS) is a classification society that provides certification services to the marine and offshore industries for more than 150 years. The importance of having an ABS certification is to ensure that companies producing vessels, products, materials or equipment for the marine industry meet a global standard to ensure the safety and quality of vessels out at sea.





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