

EX-ES04 SERIES

EXPLOSION-PROOF EXIT SIGN

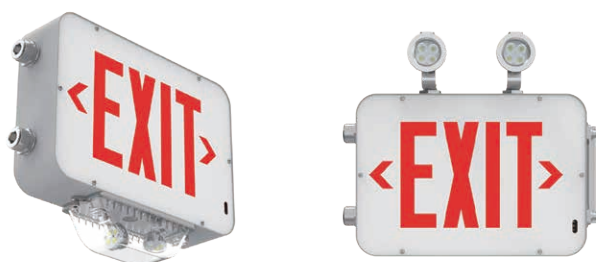
Class I Division 1, Class II Division 2, Zone 1 & 2, Zone 21 & 22

INTRODUCTION

The FGE-ES04 Series Explosion-proof Exit Sign is a portable emergency light built for hazardous industrial environments. Equipped with a rechargeable battery pack and durable aluminum enclosure, it provides mobile, explosion-proof lighting for maintenance and inspection work.

Featuring high-lumen LED output and adjustable beam angles, ES04 ensures excellent visibility in confined or low-light areas.

It is certified for Class I Division 1, Class II Division 2, Zone 1 & 2, Zone 21 & 22, offering safe, flexible, and rechargeable emergency lighting for critical field operations.



COMPLIANCE

Class I Division 2, Group A, B, C, D
Class II Division 2, Group F, G
Class III
UL 844 Hazardous Locations
UL 924 Emergency Lighting



LM-79

LM-80

TM-21

ISTMT

IEC

FEATURES



High Efficacy & Energy Saving: Up to 120 lm/W, reducing energy consumption by over 60% compared with HID fixtures.



Monthly/annual self-testing: Regular checks prolong the fixture's operational lifespan and lower replacement costs.



90 Minutes EM Back-up Options: Ensuring safety and visibility during critical moments.



Reliable Warranty: 5 Years Warranty.

- Protections

Output open circuit and short circuit protection; Battery over charge and over discharge double protection.

- Robust Protection:

IP66 waterproof & dustproof, IK10 impact resistance for harsh industrial environments.

- Versatile Mounting Options:

Suspension rod, hanging ring, wall and ceiling mounting for flexible installation.

- Wide Input Voltage:

AC100-277V, suitable for global power grids.

APPLICATIONS



Paper Mills: Providing dependable emergency illumination in dust-heavy paper production areas to ensure safe evacuation during power outages.



Loading Dock Platforms: Ensuring clear and stable emergency lighting for busy loading zones to guide workers safely through high-traffic areas during power interruptions.



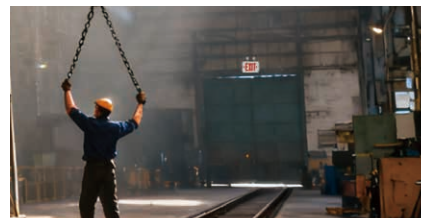
Chemical Processing Facilities: Delivering reliable emergency lighting in hazardous chemical environments to support safe movement and quick response when normal power fails.



Coal Mine: Offering essential backup illumination for dark and confined mining areas to enhance worker safety during unexpected power losses.



Power Plants: Maintaining critical visibility across high-risk equipment areas to support safe operations when power interruptions occur.

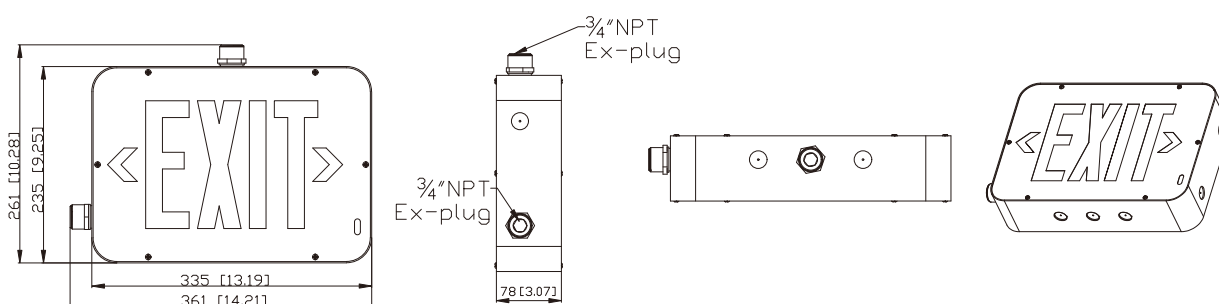
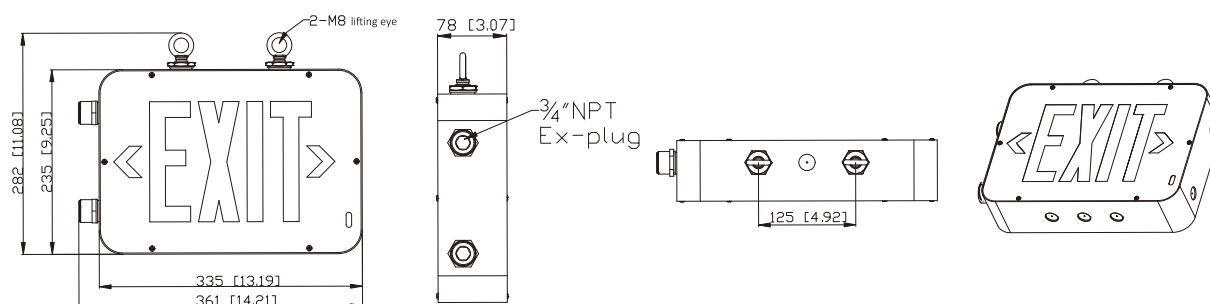
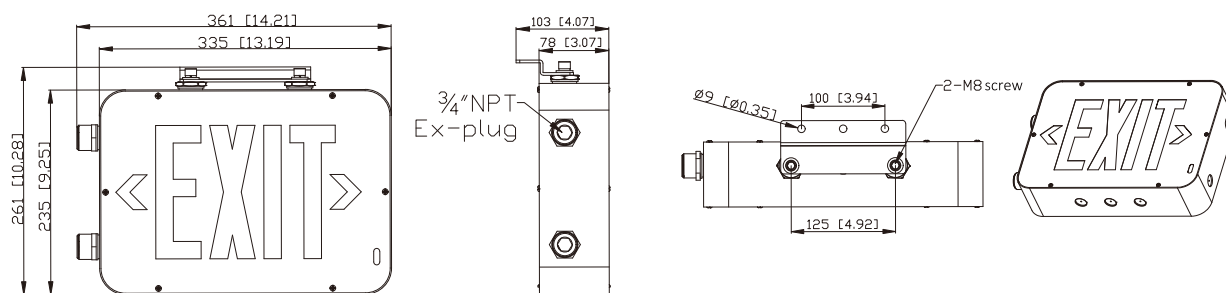
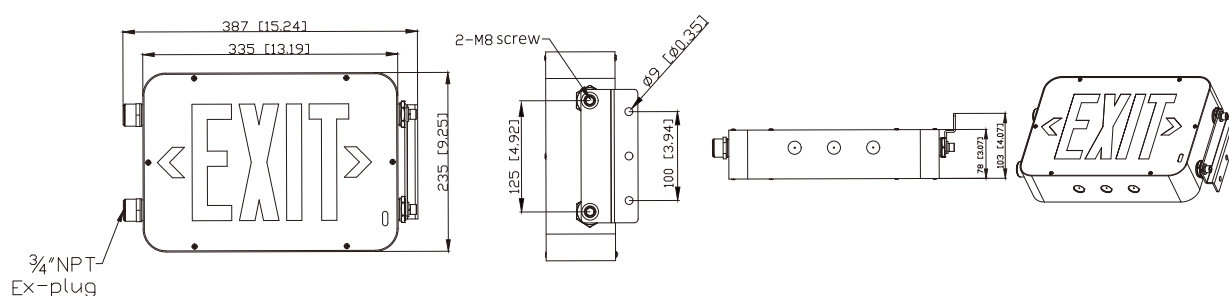
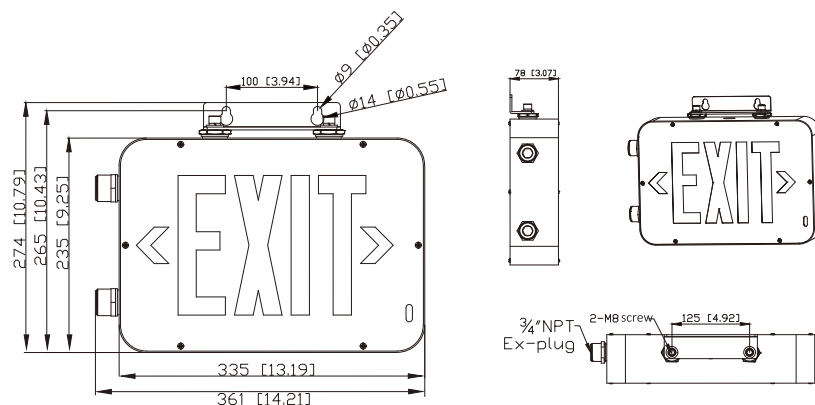


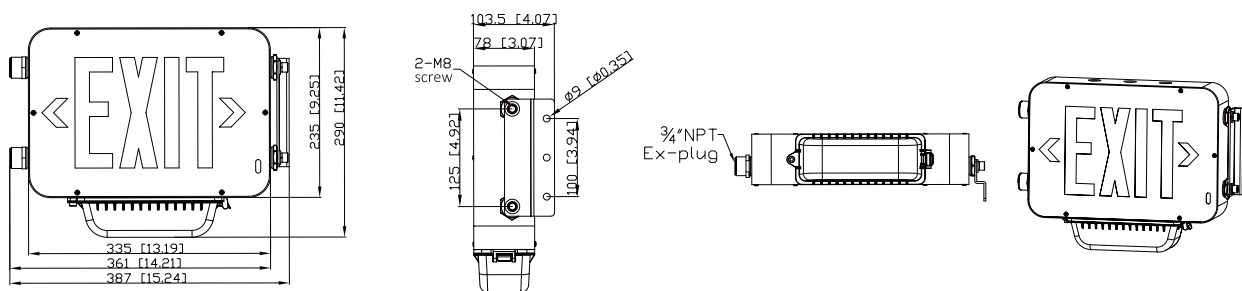
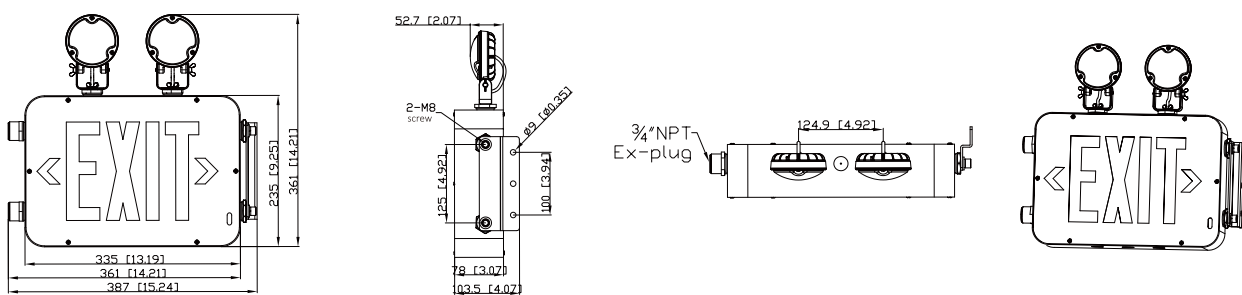
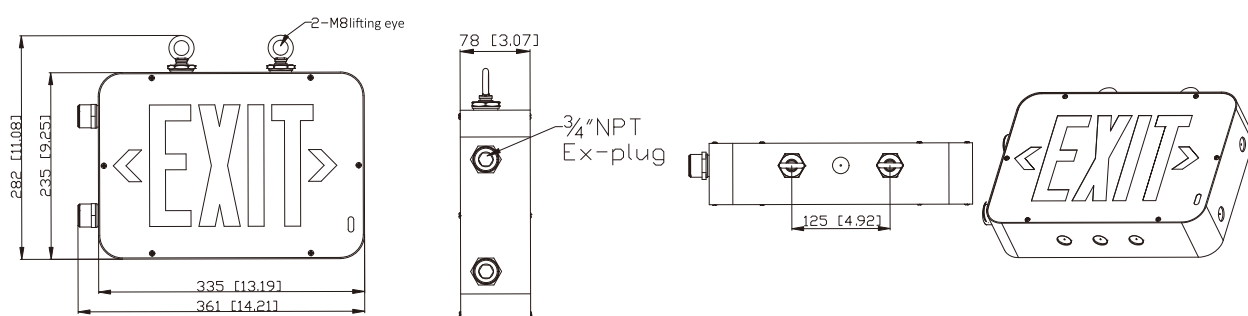
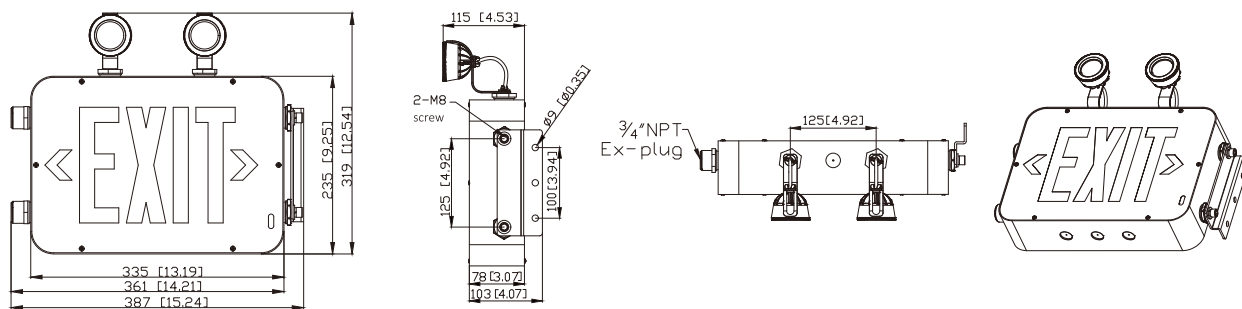
Heavy Industrial Facilities: Supporting safe evacuation and operational continuity in large industrial environments during unexpected power failures.

TECHNICAL PARAMETERS

Product Model	ES04-5W	ES04-10W	ES04-12W	ES04-15W	ES04-17W	ES04-20W
Electrical Performance						
Wattage	5W	10W	12W	15W	17W	20W
Input Voltage	AC100-277V	AC100-277V	AC100-277V	AC100-277V	AC100-277V	AC100-277V
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Power Factor (PF)	>-	>-	>-	>-	>-	>-
Surge Protection	-KV	-KV	-KV	-KV	-KV	-KV
THD	-	-	-	-	-	-
Optical Performance						
Luminous Efficacy	120lm/W	120lm/W	120lm/W	120lm/W	120lm/W	120lm/W
Luminous Flux	600lm	1200lm	1440lm	1800lm	2040lm	2400lm
CCT	-	-	-	-	-	-
CRI	Ra>-	Ra>-	Ra>-	Ra>-	Ra>-	Ra>-
Beam Angle	-	-	-	-	-	-
Unified Glare Rating (UGR)	-	-	-	-	-	-
Reliability						
Lifetime	>100,000h	>100,000h	>100,000h	>100,000h	>100,000h	>100,000h
Operating Temperature	-20 ~ +55°C	-20 ~ +55°C	-20 ~ +55°C	-20 ~ +55°C	-20 ~ +55°C	-20 ~ +55°C
Storage Temperature	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C
Ingress Protection	IP66	IP66	IP66	IP66	IP66	IP66
Impact Resistance	IK10	IK10	IK10	IK10	IK10	IK10
Control						
Dimming	Non Dimmable	Non Dimmable	Non Dimmable	Non Dimmable	Non Dimmable	Non Dimmable
Sensor	-	-	-	-	-	-
Communication Protocol	-	-	-	-	-	-
Emergency Kit	90 Minutes Emergency Time					
Mechanical						
Housing Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Lens Material	PC	PC	PC	PC	PC	PC
Coating	Grey/RAL7040	Grey/RAL7040	Grey/RAL7040	Grey/RAL7040	Grey/RAL7040	Grey/RAL7040
Net Weight	-kg	-kg	-kg	-kg	-kg	-kg
Dimensions	361x78x274mm	361x78x274mm	361x78x274mm	361x78x274mm	361x78x274mm	361x78x274mm
Warranty	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years

MECHANICAL DIMENSIONS



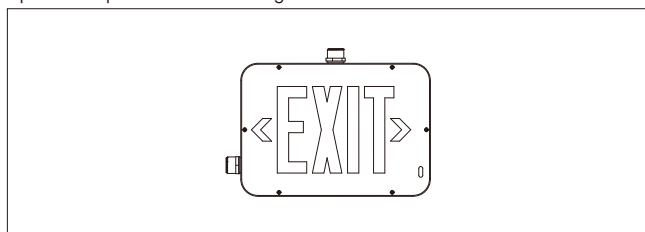


INSTALLATION

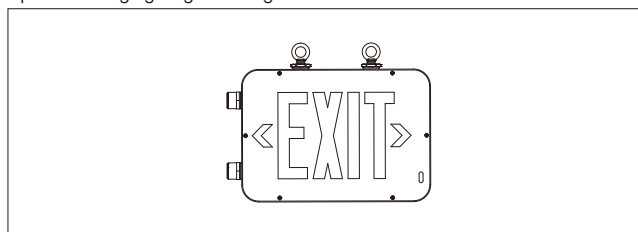
Model	Illustration				
No Lamp Head	 Suspension Rod	 Hanging Ring	 Wall-mounted	 Ceiling-mounted	
bottom lamp head 1	 Suspension Rod	 Hanging Ring	 Ceiling-mounted	 Front wall-mounted	 Side wall-mounted
bottom lamp head 2	 Suspension Rod	 Hanging Ring	 Ceiling-mounted	 Front wall-mounted	 Side wall-mounted
Top lamp holder 1	 Suspension Rod	 Wall-mounted	 Double-sided with exit sign		 No exit sign on the back
Top lamp holder 2	 Suspension Rod	 Wall-mounted			

Mounting Methods

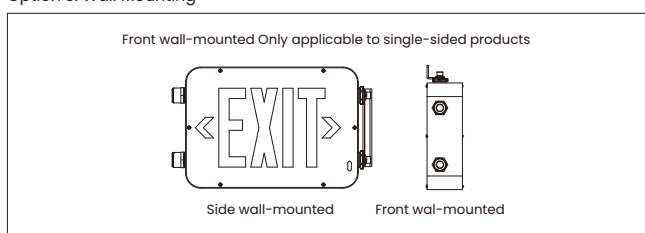
Option 1: Suspension Rod Mounting



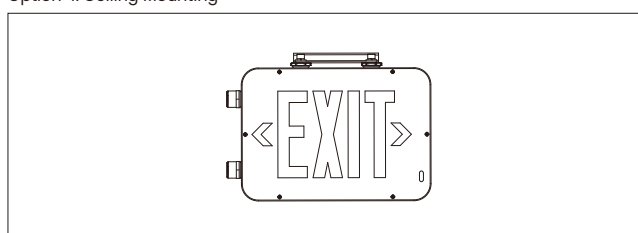
Option 2: Hanging Ring Mounting



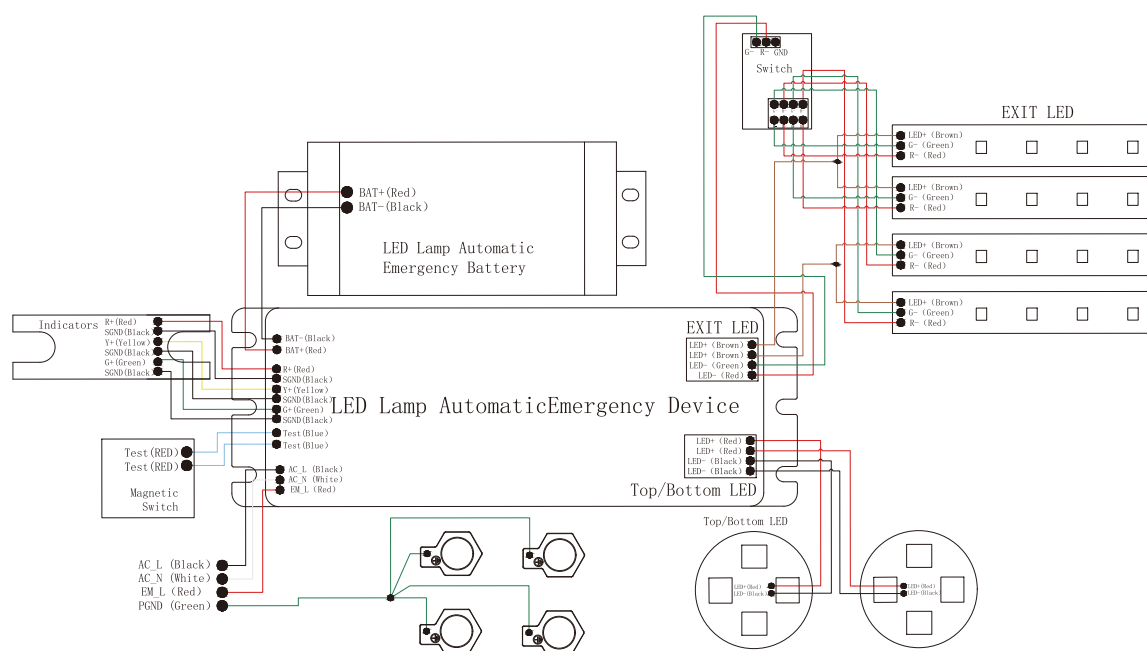
Option 3: Wall Mounting



Option 4: Ceiling Mounting



WIRING DIAGRAM



LED INDICATOR STATE & REPRESENTATION

LED Indicator State			Representation
GREEN LED (Running indicator)	RED LED (Charging indicator)	YELLOW LED (Fault indicator)	
ON	Flash 0.2HZ(5S/time)	OFF	Battery charge
ON	ON	OFF	Battery Fully charged
ON	Flash 1HZ(1S/time)	OFF	Battery discharge
OFF	OFF	OFF	Discharge cutoff
ON	OFF	Flash 2HZ (0.5S/time)	Battery disconnect
ON	OFF	Flash 2HZ (0.5S/time)	LED LAMP disconnect
ON	OFF	Flash 1HZ (1S/time)	Battery under voltage
ON	OFF	Flash 1HZ (1S/time)	Battery over voltage
ON	Flash 2HZ(0.5S/time) Flash 5 times	OFF	Function test beginning (once a month)
ON	Flash 1HZ (1S/time)	OFF	Under Function test
ON	OFF	Flash 0.5HZ (2S/time)	Function test failed
ON	Flash 2HZ (0.5S/time) Flash 7 times	OFF	Discharge duration test beginning (once a year)
ON	Flash 1HZ (1S/time)	OFF	Under Discharge duration test
ON	OFF	Flash 0.5HZ (2S/time)	Discharge duration test failed

OPTIONAL LETTER

Product image	Product name	Product image	Product name
	M = Straight middle		U=Universal
	U9= arrow up 90°		
	D9= arrow down 90°		
	R = arrow right		
	L = arrow left		U4= arrow up 45°
	D4 = arrow down 45°		

Change EXIT sign colour by Switch

Manually change EXIT sign colour
to red or green by Switch
(RED EXIT LED / GREEN EXIT LED)



ORDER INFORMATION

EX-Y-ES04-YY-YY-YY-YY

1 EX = Explosion Proof Light

2 Wattage

5W	5W
10W	10W
12W	12W
15W	15W
17W	17W
20W	20W

3 ES04 = ES04 Exit Sign

4 Series Name

A	Single-sided Exit Sign Only
B1	Single-sided Exit Sign + Top Lamp Holder 1
B2	Single-sided Exit Sign + Top Lamp Holder 2
C1	Single-sided Exit Sign + Bottom Lamp Head 1
C2	Single-sided Exit Sign + Bottom Lamp Head 2
D1	Single-sided Exit Sign + Remote-controlled Lamp Holder 1
D2	Single-sided Exit Sign + Remote-controlled Lamp Holder 2
E	Double-sided Exit Sign Only
F1	Double-sided Exit Sign + Top Lamp Holder 1
F2	Double-sided Exit Sign + Top Lamp Holder 2
G1	Double-sided Exit Sign + Bottom Lamp Head 1
G2	Double-sided Exit Sign + Bottom Lamp Head 2
H1	Double-sided Exit Sign + Remote-controlled Lamp Holder 1
H2	Double-sided Exit Sign + Remote-controlled Lamp Holder 2

5 Color Temperature

20	2000K
27	2700K
30	3000K
40	4000K
50	5000K
57	5700K
65	6500K

6 Optics

40	40°
60	60°
90	90°
120	120°

7 Exit Sign

M	Straight Middle
D4	Arrow Down 45°
D9	Arrow Down 90°
U4	Arrow Up 45°
U9	Arrow Up 90°
L	Arrow Left
R	Arrow Right
U	Universal

8 Frame Design

A	Design A
B	Design B
C	Design C

9 Mounting Type

M1	Suspension Rod
M2	Suspension Rod
M3	Suspension Rod
M4	Side wall-mounted
M5	Ceiling-mounted

10 Battery Back Up

E	With Battery for 2 Hours
N	Without Battery

11 Input Voltage

(Blank)	AC100-277V
---------	------------



WARRANTY PERIOD
**5 YEARS
WARRANTY**



WARRANTY COVERAGE
**LED LIGHT SOURCE,
DRIVER**



AFTER-SALES
SERVICE COMMITMENT
24H RESPONSE



AFTER-SALES
SERVICE COMMITMENT
72H RESOLUTION/REPLACEMENT