



NLS AND REGULAR EMERGENCY BATTERY BACK-UP

BATTERIES FOR UHB

► **DESIGN** — NLS AND REGULAR EMERGENCY BATTERY BACK-UP FOR UHB with its durable lithium-ion battery provides constant output power allowing lighting fixture to operate more than 90 minutes in emergency mode during a power outage. Commercial grade housing with built-in junction box enables quick and easy installation. It is connected to the AC input directly.

► **SELF-CHECKING OPTION** — Battery automatically performs a monthly self-test to check whether the emergency function and annual self-test to check the capacity of the battery pack is normal.

► **SMART CONTROL** — Smart control with ASD NLS application for your mobile device allows to run battery tests and create a self-testing schedule to check whether the emergency function is normal. It also allows to monitor battery level, battery status, and to view test reports after each test.

► **APPLICATION** — IP65 commercial housing is designed specially for UHB fixtures with 0/1-10V dimming. It is wet locations rated.

► **PROTECTIONS** — Batteries are equipped by over charge protection, over discharge protection, short circuit protection, output overload and open load protections that ensure stable durable operation.

► **ADVANTAGES** — Long lifespan - these batteries meet 5000 cycles of standard charge and discharge. ASD provides a 5-year warranty with UL certification to guarantee top quality products and safety! In the event of a battery malfunction (Battery fault, load fault), the corresponding indicator in the APP will notify the user.



PRODUCT PRESENTATION:

Model	Watts	Voltage	Dimmable	Dimensions (LxWxH)	Certification
ASD-EMB40	40W	120-277 V	0-10 V	8-3/8" x 5-3/16" x 4-13/16"	UL(E495654)
ASD-EMB60	60W	120-277 V	0-10 V	8-3/8" x 5-3/16" x 4-13/16"	UL(E495654)
ASD-EMB40-NLS	40W	120-277 V	0-10 V	8-3/8" x 5-3/16" x 4-13/16"	UL(E495654)
Accessories					
ASD-G02-NLS	-	120V	-	4-1/4" x 5-3/16" x 1-1/16"	-

ORDERING INFORMATION

Model	UPC	Pcs. per carton	Carton size	Carton weight	GTIN 14
ASD-EMB40	81012811677	6	17.3" x 13.5" x 12.2"	31 lbs	10810128116777
ASD-EMB60	81012811678	6	17.3" x 13.5" x 12.2"	31.3 lbs	10810128116784
ASD-EMB40-NLS	81012811378	6	13.6" x 14.1" x 16.7"	31.3 lbs	10810128113783
Accessories					
ASD-G02-NLS	81012811436	4	15.75" x 11.81" x 9.29"	6.2 lbs	10810128114360

For most up-to-date spec sheets please refer to asd-lighting.com

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TECHNICAL PARAMETERS:

Construction & Materials			
Housing	Metal		
Weight	ASD-EMB40	3.7 lbs (1.7 kg)	
	ASD-EMB60	4.7 lbs (2.1 kg)	
	ASD-EMB40-NLS		
Environmental system			
Work environment	Suitable for Wet Locations, IP65		
Operating temperature	-32°F to 122°F (0°C to 50°C)		
L-70 Life	> 50,000 hrs		
Electrical system			
Input voltage	120-277 V		
Max input current	0.15 A		
Max Input power	12W		
Max load power	ASD-EMB40	350W	
	ASD-EMB60	500W	
	ASD-EMB40-NLS	350W	
Maximum lighting fixture weight	44 lbs(20 kg)		
Output voltage	120-200 V		
Surge protection	1 kV		
Battery type	Li-ion		
Battery capacity available	6600 mAh		
Battery recharge time	24 hours		
Battery discharge time	90 min		
Bluetooth Communication Range			
Bluetooth range	up to 40 m (132ft)		
Regular and voluntary certifications			
5-year limited warranty			
UL certified E495654			

STANDARD OPERATION DISPLAY STATUS:

Test switch	Emergency mode	Charging	Malfunction mode
 OFF	 OFF	 ON	 Blinking

Normal mode:

Fixtures will operate normally when power is available. When an outage occurs, the fixture will switch to emergency mode, delivering power to the fixture for more than 90 minutes.

Emergency mode:

1. The emergency battery backup enters the emergency mode immediately after the mains power failure.

2. Stop the emergency and return to the charging state after the mains power call.

Self-test / Monthly self-test:

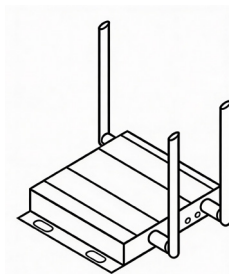
This mode can mean that: the battery pack is disconnected or it is broken; the load is disconnected; short circuit or open circuit; the wires are not connected properly; the indicator will be flashing in this case.

Annual self-test:

An annual self-test will be done every year (12 months) with a duration of more than 90 mins to check whether the capacity of the battery pack is normal, and automatically restore to normal charging after fully discharged. (the condition of annual test is that the battery pack is fully charged). If the annual inspection is interrupted, it will be retested after recovery and when the test conditions are met. (Possibility of interruption: such as sudden power failure, sudden manual test).

THE GATEWAY ASD-G02 NLS:

Using the gateway allows smart emergency batteries to connect to the Internet, making their data accessible fully remotely. This allows users to monitor battery status, review self-test reports, schedule automated self-tests, and receive fault notifications from anywhere — without needing to be physically present in the building where the EM system is installed.



The gateway is sold separately and is not required for basic Bluetooth system operation; all core functions remain available locally without it.

STEP-BY-STEP SETUP GUIDE:

1. Manually Put the Gateway in Pairing Mode:

- Connect the gateway to a power source, then hold «reset» button for a 5 seconds.

2. Adding the Gateway to the App:

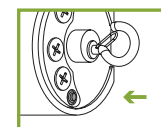
- Ensure Bluetooth is enabled and your phone is connected to Wi-Fi.
- Open the ASD NLS App.
- Go to Device Management and select the area where the gateway will be located.
- Press the «+» button in the top right corner to add a device.
- Wait for the App to find the gateway. When it appears, press «Add».
- Enter your Wi-Fi credentials.
- After the gateway loads, press «Done» in the top right corner.
- Select the loaded gateway and press «Add» one final time to complete the setup.

3. Connect the Emergency-kit to a power source, then prepare the battery for pairing:

- If the battery's button light is blinking: It's already in pairing mode. Skip to Step 5.
- If the battery's button light is not blinking: Go to Step 4 to manually enter pairing mode.

4. Manually Put the Battery in Pairing Mode:

- Press the test button 5 times. Open the ASD NLS App.
- The battery will make a clicking noise, and the red light will briefly turn off, then come back on and start blinking. This means the battery is now in pairing mode.



5. Adding the Battery to the App:

- In the app, return to the chosen Area. Select your gateway from the list of devices and follow the steps below to add your battery.
- Press the «Add Device» button at the bottom and then the «Add new devices» button to find battery.
- Wait for the app to find your battery. When it appears, press «Next» button.
- After the battery loads, press «Done» to complete the setup.
- After the battery loads, press «Done» in the top right corner.
- Select the loaded battery and press «Add» one final time to complete the setup.

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BEHIND THE SCENES: HOW IT WORKS:

ASD NLS is a professional smart-control application that provides centralized, remote oversight while keeping the interface concise and purpose-driven.

Connecting NLS EM through the app lets users monitor battery status and capacity in real time, schedule automatic self-tests with logged results, and receive remote diagnostics and alerts — ensuring up to 90 minutes of backup readiness and enabling predictive maintenance with fewer site visits.



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[ASD NLS APP](#)
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[ASD NLS manual](#)

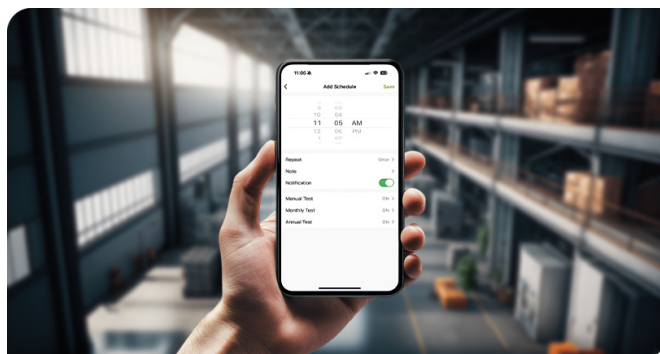


[Presentation ASD NLS](#)



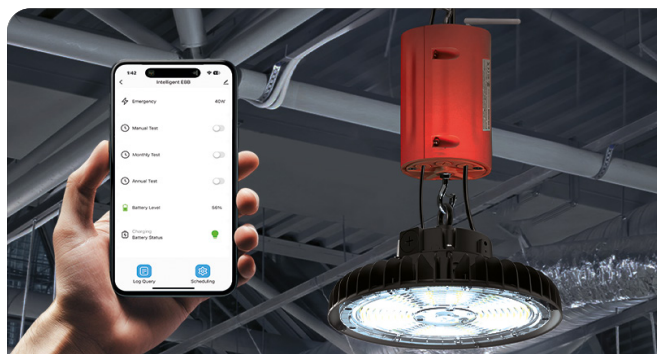
SCHEDULING

Users select projects/zones and set convenient test times. Tests start automatically at scheduled times; recurring or manual runs supported.



BATTERY STATUS

Devices periodically send charge level and health. App displays current battery status and issues low-battery alerts; system estimates remaining life.



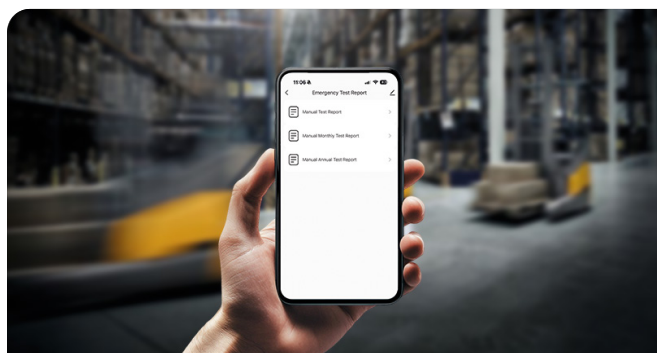
BATTERY FAULT NOTIFICATION

System monitors battery health (overheating, voltage drops, charge/discharge failures). App sends instant alerts; all faults logged with timestamp.



TEST REPORTS

Test results are automatically saved after completion. Reports are available through the ASD NLS app and based on battery charge and condition data.



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