

Dual Glow Safety System

General Forklift Installation Guide - Direct Battery Connection

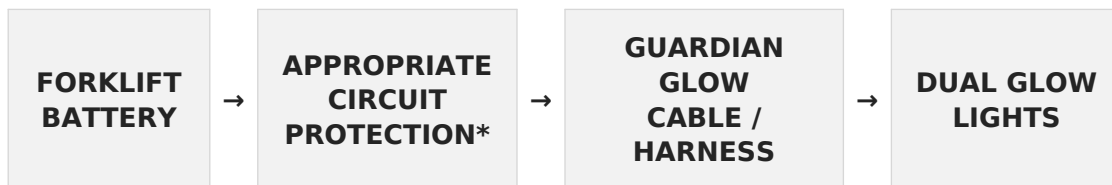
This guide outlines a typical Guardian Glow Dual Glow installation on a forklift. Exact mounting, cable routing, power connection, and circuit protection can vary by forklift model and electrical system. AVR Global Technologies engineering support is available for application-specific guidance.

Before installation: Verify the forklift battery/system voltage and polarity. Guardian Glow lighting supports DC +10-80V. Disconnect or isolate power in accordance with the forklift manufacturer's service procedures before making electrical connections.

System Specifications

Electrical	DC +10-80V
Housing	Aluminum die-cast housing
Protection / Certification	IP67 / CE with GORE
LED	OSRAM LEDs
Working life	50,000 hours
Environmental range	-49°F to 185°F
Cable options	Standard/custom; 6 ft, 12 ft, 25 ft, 50 ft options

Typical Connection



*Fuse/circuit protection type and rating should be selected for the specific forklift, cable, and installation. Contact AVR engineering if assistance is needed.

Installation Procedure

1. Confirm the electrical system

Identify the forklift battery or approved power connection and verify that the system is within the Guardian Glow DC +10-80V operating range. Confirm polarity before connecting the lighting system.

2. Position and secure the lights

Select locations that provide the desired projected safety boundary without obstructing forklift operation. For typical forklift applications, AVR recommends a magnetic mounting solution where a suitable ferrous mounting surface is available. Confirm each light is secure before operation.

3. Route the cables

Route the Guardian Glow cables from the lights toward the battery/power source. Keep wiring clear of the mast, forks, chains, steering components, pinch points, sharp edges, excessive heat, and other moving parts. Secure the cable with appropriate ties or clips and protect it from abrasion.

4. Connect the lights to the harness

Connect each Dual Glow light to the supplied Guardian Glow cable/harness. Make sure connectors are fully seated and secured. Do not modify the connectors or wiring unless the configuration has been approved for the application.

5. Connect to battery power

With forklift power safely isolated, connect the positive (+) power lead to the appropriate positive battery/power connection and the negative (-) lead to the appropriate negative/ground connection. Use application-appropriate circuit protection. Do not energize the system until polarity and all connections have been verified.

6. Secure and inspect

Secure excess cable and inspect the complete route. Verify that the magnetic mounts, wiring, connectors, and battery connections are secure and that nothing can contact moving components during normal forklift operation.

7. Power on, aim, and test

Restore power according to the forklift manufacturer's procedures. Confirm both lights illuminate. With the forklift stationary, adjust the light position until the projected safety boundary is located as desired. Reconfirm that the mounts remain secure after adjustment.

8. Final operational check

Test the forklift in a controlled area. Verify that both lights remain operational, the projected boundary remains properly positioned, and all cables and mounts remain secure throughout normal movement.

Guardian Glow Lighting Reference

Product information supplied for the Guardian Glow lighting solution.

HALO SAFETY LIGHTING SOLUTIONS

- Rugged IP67 / CE with GORE
- Aluminum die-cast housing
- Voltage: DC +10-80v
- OSRAM led's
- 50,000 Hours working life
- Environmental: -49 ~ 185°F

Standard & Custom Cables options
via AVRGT

6ft / 12ft / 25ft / 50ft



Installation Notes

- Magnetic mounting is recommended for typical forklift applications when the mounting surface is suitable and provides adequate retention.
- AVR Global Technologies offers standard and custom cable solutions to connect Guardian Glow lighting to the equipment power source.
- Available cable lengths shown in the supplied product information include 6 ft, 12 ft, 25 ft, and 50 ft.
- Installation requirements can differ by forklift make, model, battery configuration, and desired light placement.
- If the power connection, fuse/circuit protection, mounting location, or cable configuration is uncertain, contact AVR engineering before installation.

Need installation assistance?

AVR Global Technologies engineers are available to help review your forklift configuration, recommend cable solutions, and walk your team through the installation process.

Important: This document is a general installation guide and does not replace the forklift manufacturer's electrical/service instructions. Final installation should be reviewed for the specific equipment and operating environment.