



INSTALLATION MANUAL

DUAL FIXTURE PRO SERIES SOLAR LIGHT POLE ASSEMBLY

Part Numbers: SP-PRO-DH20 | SP-PRO-DH25 | SP-PRO-DH30

PRODUCT	CONFIGURATION	MOUNTING	REVISION
SP-PRO-DH20 / DH25 / DH30	20 ft / 25 ft / 30 ft pole; dual fixture	Base plate + included pole adapter / dual-fixture bracket	Rev. 01

1. PRODUCT APPLICATION

The SF Industries Dual Fixture Pro Series Solar Light Pole Assembly combines a hot-dip galvanized carbon-steel pole with two SAL1000-PRO solar flood lights mounted on a shared dual-fixture bracket/cross-arm arrangement. Available nominal pole heights are 20 ft, 25 ft, and 30 ft. A mounting adapter is included and selected to match the specified 4 in. or 5 in. pole. Each SAL1000-PRO is a self-contained solar lighting unit with an external solar panel and remote control.

2. SAFETY & PRE-INSTALLATION REQUIREMENTS

- Read this manual, the pole and SAL1000-PRO product data sheets, approved project drawings, and applicable site requirements before beginning.
- Installation must be performed by qualified personnel using suitable lifting equipment, inspected rigging, and required fall protection. Establish an exclusion zone during lifting and erection.
- Verify the ordered part number and pole height: SP-PRO-DH20 (20 ft), SP-PRO-DH25 (25 ft), or SP-PRO-DH30 (30 ft). Confirm the supplied adapter matches the specified 4 in. or 5 in. pole.
- Inspect the pole, base plate, galvanized finish, cage bolt assembly, adapter, dual-fixture bracket, both SAL1000-PRO lights, solar panels, and hardware. Do not install damaged or incomplete components.
- The pole specification states a wind rating up to 150 mph. Obtain project-engineer confirmation for the complete dual-fixture assembly, foundation, and site-specific wind criteria.
- Foundation dimensions, concrete/reinforcement requirements, anchor layout, anchor torque, and adapter/bracket fastening details must come from approved project documents. Do not assume values.
- Do not drill, weld, cut, or modify the pole, adapter, bracket, or fixtures unless approved in writing by the responsible engineer/manufacturer.
- Choose a location with adequate structural support and unobstructed solar exposure for both panels. Confirm underground/overhead utilities and required clearances.

3. COMPONENTS

COMPONENT	DESCRIPTION
Solar-specific pole	¼ in. carbon steel; hot-dip galvanized; 20 ft, 25 ft, or 30 ft nominal height.
Base plate and cage bolt assembly	Solid welded base plate; custom cage bolt assembly supplied with pole.
Pole adapter	Included; 4 in. or 5 in. adapter selected to match pole specification.
Dual-fixture mounting assembly	Shared bracket/cross-arm arrangement supporting two SAL1000-PRO fixtures; use approved assembly details.
SAL1000-PRO fixtures (2)	Two solar flood lights; 100,000 lm per fixture; remote control included.
Fixture mounting interface	Use the approved supplied mounting hardware/interface. Confirm exact fasteners and attachment details before assembly; do not improvise.

4. INSTALLATION PROCEDURE

- 1. Verify configuration** — Confirm part number, pole height, pole size, included adapter, dual-fixture bracket, two SAL1000-PRO fixtures, site location, approved structural drawings, and lighting layout.
- 2. Inspect components** — Check pole, base plate, cage bolt assembly, adapter, bracket, both fixtures, solar panels, and hardware for damage. Verify the components match the approved configuration.
- 3. Prepare foundation** — Locate foundation per approved drawings and confirm utilities and clearances. Foundation size, depth, concrete, reinforcement, and anchor geometry must be specified by the project engineer.
- 4. Set cage bolt assembly and foundation** — Position and brace the supplied cage bolt assembly to the approved anchor layout and elevation. Place and cure concrete per project documents. Do not erect the pole until specified strength/release criteria are met.
- 5. Assemble adapter and dual-fixture bracket** — At a safe working height, attach the included 4 in. or 5 in. adapter and dual-fixture bracket using the approved assembly drawing. Obtain specified fastener sizes and torque values before tightening.



6. Mount both SAL1000-PRO fixtures — Attach one fixture to each designated side of the bracket using approved mounting hardware and instructions. Ensure both are secure and correctly oriented. Do not substitute hardware or infer attachment details from the reference image.

7. Aim fixtures and orient solar panels — Aim each fixture according to the approved lighting plan. Ensure each solar panel has unobstructed sunlight and that fixture orientation does not shade the other panel. Confirm intended coverage before lifting.

8. Lift and erect assembly — Use a qualified lifting crew, inspected rigging, and an approved lift plan. Account for the two fixtures and wider mounting arrangement. Protect the galvanized finish, lights, and panels. Keep personnel clear of suspended loads.

9. Set base plate — Lower the base plate over foundation anchor bolts without damaging threads or forcing misaligned anchors. Install washers and nuts per approved project/hardware instructions.

10. Plumb and secure pole — Align and plumb the pole. Tighten foundation anchor hardware to approved engineering/hardware requirements. No numerical anchor torque is provided in the product data sheets.

11. Final inspection — Verify pole stability, adapter/bracket and both fixtures are secure, fixture aiming is correct, both panels are unobstructed, and required clearances are maintained.

5. TORQUE, FASTENERS & FOUNDATION

Use approved project engineering documents, the dual-fixture bracket/adapter assembly drawing, and applicable hardware manufacturer specifications. Do not substitute torque values from another product. If required details are unavailable, stop work and obtain written direction from the responsible engineer or SF Industries.

6. ORIENTATION, HEIGHT & LIGHTING NOTES

- Pole height options are 20 ft, 25 ft, and 30 ft. The SAL1000-PRO data sheet recommends a 20–30 ft installation height; confirm suitability for the selected pole and application.
- Each SAL1000-PRO is specified at 100,000 lumens, with a 140° beam angle. Two fixtures provide 200,000 lumens nominal combined output.
- The SAL1000-PRO data sheet gives a 40–60 ft spacing guideline for area lighting up to 100ft. Actual dual-fixture spacing and coverage require.
- Confirm both solar panels receive adequate daily sunlight. Avoid shading from the pole, fixtures, buildings, trees, or other obstructions.
- Approximately 6–8 hours charging in indirect sunlight and 9–12 hours runtime; actual performance varies with sunlight, season, battery condition, and operating mode.
- The pole wind rating is stated as up to 150 mph; verify engineering basis and site-specific applicability for the complete installed assembly.

7. POST-INSTALLATION CHECKLIST

- Correct assembly part number and pole height installed.
- Correct 4 in. or 5 in. adapter installed to match the specified pole.
- Dual-fixture bracket and both SAL1000-PRO lights installed using approved details.
- Foundation, cage bolt assembly, and anchor hardware match approved project documents.
- Pole is plumb, stable, and free of visible damage or deformation.
- Both fixtures are secure, correctly aimed, and free of interference.
- Both solar panels have unobstructed sunlight exposure.
- No visible slippage, loose hardware, or coating damage requiring correction.
- Installation inspected and accepted by the responsible qualified person/project representative.

8. INITIAL OPERATION, MAINTENANCE & INSPECTION

Use the supplied remote control and confirm operating mode using the current SAL1000-PRO documentation. Allow charging in accordance with product instructions before evaluating normal nighttime performance. Periodically inspect the pole, foundation, visible anchors, adapter, dual-fixture bracket, both fixture connections, lights, and solar panels, including after significant weather, vibration, impact, or maintenance. Check for looseness, movement, corrosion, coating damage, cracking, deformation, or panel obstruction. Restrict access and obtain qualified evaluation if damage or movement is observed.

9. TECHNICAL REFERENCE

Use this manual with the Solar Specific Light Pole data sheet, SAL1000-PRO product specification sheet/manual, approved dual-fixture bracket and adapter assembly drawing, structural/foundation drawings, lighting design, project specifications, and applicable codes. Where a dimension, fastener, torque, or connection detail is not specified, obtain direction from the responsible engineer or SF Industries before installation.



10. PRODUCT DATA REFERENCE

PARAMETER	SUPPLIED DATA
Assembly part numbers	SP-PRO-DH20 (20 ft); SP-PRO-DH25 (25 ft); SP-PRO-DH30 (30 ft)
Luminaire quantity / model	2 × SAL1000-PRO
Pole material / finish	¼ in. carbon steel; hot-dip galvanized; ASTM A123 referenced
Mounting adapter	Included; 4 in. or 5 in. to match pole specification
Light output	100,000 lm per fixture; 200,000 lm nominal combined
Beam angle	140° per fixture
Solar panel / runtime	52 W per fixture; 9–12 hour runtime stated in source light data
Fixture protection / temperature	IP67; -40°F to 135°F, per SAL1000-PRO data sheet
Fixture weight	7 lb per light; complete assembly weight not specified
Manufacturer	SF Industries USA