



# SOLARALPHA

SOLAR POWERED LIGHTING SYSTEM

The SolarAlpha high powered LED solar lighting system comes complete with solar power assembly, fixture, bracket and all mounting hardware to attach to a pole.

## Solar Power

The SolarAlpha solar power assembly ranges from 30 Watts to 550 Watts with the size of the battery assembly allowing for a minimum of five days autonomy. Solar panel assemblies are selected to charge the battery assembly to run the light fixture the needed run time operation of the project. The panel assembly is selected by the solar lighting specialist working on the project taking into consideration installation location, operation of the fixture and available sun hours.

- SEPA30** - 30 Watt
- SEPA50** - 50 Watt
- SEPA75** - 75 Watt
- SEPA100** - 100 Watt
- SEPA150** - 150 Watt
- SEPA200** - 200 Watt
- SEPA275** - 275 Watt
- SEPA300** - 300 Watt
- SEPA550** - 550 Watt

## Battery Assembly

Battery assemblies are chosen to go along with the solar panel assembly to provide the needed power to run the light fixture all night, year round. The size battery also chosen provides a minimum of 5 days of backup power for times of inclement weather and to extend the life of the battery. The battery assembly is typically mounted under the solar panel assembly to provide shading to the battery. There are alternate battery enclosure options that can be located remotely for roof mounted or transformer base installations.

- XS** - 36 Amp Hour
- S** - 82 Amp Hour
- M** - 112 Amp Hour
- DS** - 164 Amp Hour
- DM** - 224 Amp Hour
- QS** - 328 Amp Hour
- QM** - 448 Amp Hour
- HS** - 492 Amp Hour
- HM** - 672 Amp Hour
- GMM** - \_\_\_\_\_ Amp Hour
- GMF** - \_\_\_\_\_ Amp Hour

## Light Fixture

The Alpha fixture is a large flood style fixture and comes complete with LEDs and driver used to operate from the solar charged batteries.

Fixture housing is die cast aluminum.

Each LED has an individual optical lens.

Standard finish is Metallic Titanium with Black, Bronze, Gray, White, Metallic Bronze and Green also available.

Fixture ranges from 15 - 55 Watt LED

Distribution Patterns include NEMA 2x2, 4x4, 5x5, 6x6, 6x4

- Wattage** - \_\_\_\_\_
- Distribution** - \_\_\_\_\_
- Color** - \_\_\_\_\_
- Finish** - \_\_\_\_\_

# Control Options

Operation for the SolarAlpha is provided by the system load controller, with multiple options to choose from for different types of applications such as dusk to dawn, dusk activated timer, split timing, and motion activation.

## ALC / MPPT Chart

- 1 - Dusk to Dawn (DTD)
- 2 - Dusk Activated for \_\_\_ Hours (DAT)
- 3 - Split Time On \_\_\_, Off, On \_\_\_ Dawn
- 4 - DAT\_\_\_, Dim for Remainder of Night
- 5 - DAT\_\_\_, Dim, Full Intensity \_\_\_ Dawn
- 6 - DTD Dim, MAID Full Intensity
- 7 - DAT\_\_\_, Dim, MAID Full Intensity
- 8 - Always On Operation
- 9 - Custom Configuration

- ALC1**\_\_\_ - See Chart
- ALC2**\_\_\_ - See Chart
- MPPT2**\_\_\_ - See Chart
- MAID** - Motion Activated InfraRed Detector
- OCS** - Occupancy Sensor
- RAS** - Remote Actuated Switch
- RTC** - Real Time Clock
- RRTC** - Remote Real Time Clock
- SLT** - Spring Loaded Timer

# Fixture Bracket

The SolarAlpha bracket uses the SH – Side of Pole Horn Bracket with a 10" upsweep to mount to a pole or wall

- SH** - Side of Pole Horn Bracket

# Pole Options

The SolarAlpha system mounts to any round pole with a minimum diameter of 4", allowing the solar to face south while not restricting the direction of fixture installation. The system can be purchased complete with a pole for mounting the solar lighting system. Poles are available in aluminum, steel, fiberglass composite, or concrete and are anchor base or direct burial. The pole options vary in accordance to project needs, wind load requirements, size of power assembly, foundations and bases. All poles provided by SEPCO meet local AASHTO wind load requirements. Consult local PE for specific needs such as footers, burial depths, etc.

- PZ1 - PZ8** - Load Category \_\_\_\_\_

## Pole Type:

- SG** - Steel Galvanized
- AL** - Aluminum
- FC** - Fiberglass Composite
- CP** - Concrete

## Pole Base:

- AB** - Anchor Base
- DB** - Direct Burial
- TB** - Transformer Base
- CU** - Custom

**Pole Height:** \_\_\_\_\_

Project Name: \_\_\_\_\_

Project Location: \_\_\_\_\_

System Part Number: SEPA \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

Notes: \_\_\_\_\_

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