



# SolarAlpha

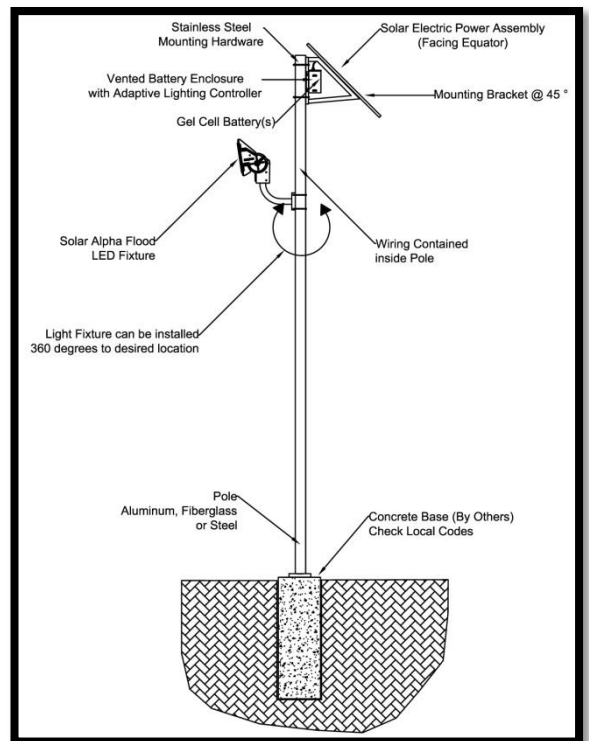
## Overview

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. SEPCO can also provide a pole to meet wind load specifications.

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. The solar power assembly is sized according to installation location and takes into concern local conditions.

The Alpha fixture is a large flood fixture and comes complete with LEDs and driver used to operate the fixture from the solar charged batteries. The SolarAlpha ranges from 15 to 60 Watts and comes with NEMA 2x2 Narrow Spot, NEMA 4x4 Narrow Flood, NEMA 5x5 Medium Flood, NEMA 6x6 Wide Flood, NEMA 6x4 Horizontal Flood, NEMA 4x6 Vertical Flood Distribution patterns. There are dimming and finish options available.

The SolarAlpha bracket is a SH Side of Pole Horn bracket. The brackets mount directly to any round or square pole.





# Solar Alpha

## Solar Power

SEPA30	Solar Electric Power Assembly 30 Watt
SEPA50	Solar Electric Power Assembly 50 Watt
SEPA75	Solar Electric Power Assembly 75 Watt
SEPA100	Solar Electric Power Assembly 100 Watt
SEPA150	Solar Electric Power Assembly 150 Watt
SEPA200	Solar Electric Power Assembly 200 Watt
SEPA275	Solar Electric Power Assembly 275 Watt
SEPA300	Solar Electric Power Assembly 300 Watt
SEPA550	Solar Electric Power Assembly 550 Watt



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.

## Battery Assembly

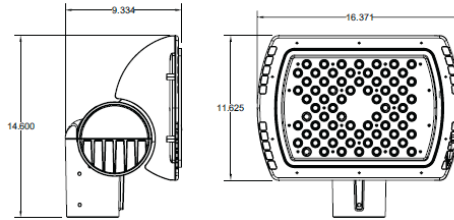
XS	36 Amp Hour Battery Assembly
S	82 Amp Hour Battery Assembly
M	112 Amp Hour Battery Assembly
DS	164 Amp Hour Battery Assembly
DM	224 Amp Hour Battery Assembly
QS	328 Amp Hour Battery Assembly
QM	448 Amp Hour Battery Assembly
HS	492 Amp Hour Battery Assembly
HM	672 Amp Hour Battery Assembly

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.



# SolarAlpha

## Fixture



**OVERVIEW:** The light fixture assembly is a flood style fixture and comes complete with LEDs and driver used to operate the fixture from the solar charged batteries. The light fixture can be mounted anywhere on the pole or wall below the solar, or can be mounted separately on another pole or wall, even in the shade.

**APPLICATIONS:** Perimeters, Security Fence, Truck Terminals, Car Lots, Recreational Sports, Airport Ramps, and Building Flood

**HOUSING:** Die Cast Aluminum

**FINISH:** Black, Bronze, Green, Gray, White, Metallic Bronze, Metallic Titanium

**OPTICAL ASSEMBLY:** NEMA 2x2 Narrow Spot, NEMA 4x4 Narrow Flood, NEMA 5x5 Medium Flood, NEMA6x6 Wide Flood, NEMA 6x4 Horizontal Flood, NEMA 4x6 Vertical Flood

**LAMPING:** 15 – 60 Watt LED

**DIMENSIONS:** 9.4" Deep x 16.4" Wide x 11.625" High

**SHIPPING WEIGHT:** 27 lbs

Watts	Color	Optics	Finish
_____	_____	_____	_____

## Control Options

Each system comes complete with a controller to run the light for the required operation profile needed for each project.

### Notes:

#### Controller Options

##### ALC / MPPT NOTES

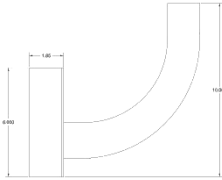
- 1 - DTD (Dusk to Dawn)
- 2 - DAT (Dusk Activated for \_\_\_ Hours)
- 3 - DIM (Dimming Operation)
- 4 - DATDIM (Dusk Activated, Dim for Remainder of Night)
- 5 - DATDIMFI (DAT, DIM, Full Intensity \_\_\_ Before Dawn)
- 6 - DTDDIMMAIDFI (DTD, DIM, Full Intensity MAID Activated)
- 7 - DATDIMMAIDFI (DAT, DIM, Full Intensity MAID Activated)
- 8 - AOC (Always On Controller)
- 9 - CUS (Custom Configuration, see description)

**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



# SolarAlpha

## Fixture Bracket



The SH side of pole horn bracket mounts to any pole or wall for flood light fixtures.

SH Side of Pole Horn Bracket

## Pole

The pole options vary in accordance to project needs, wind load requirements, size of power assembly, foundations and bases. Each pole is specified to the project and ranges from PZ1 to PZ8 depending on the strength needs of the project.

Pole Type	Pole Base	Pole Height
SG Steel Galvanized	AB Anchor Base	Heights range: 10' to 35'
AL Aluminum	DB Direct Burial	
FC Fiberglass Composite	TB Transformer Base	
Custom_____	Custom_____	
PZ1 Load Category 1		
PZ2 Load Category 2		
PZ3 Load Category 3		
PZ4 Load Category 4		
PZ5 Load Category 5		
PZ6 Load Category 6		
PZ7 Load Category 7		
PZ8 Load Category 8		

## Final Project

Customer Name : \_\_\_\_\_

Job Name : \_\_\_\_\_

Location Zip Code : \_\_\_\_\_

**SEPA** \_\_\_\_\_ **-AF** \_\_\_\_\_ **-PZ** \_\_\_\_\_

### Notes:

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