



SOLARRATIO

SOLAR POWERED LIGHTING SYSTEM

The SolarRatio 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 SolarRatio 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 Ratio RAR fixture is a Shoebox 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 Platinum Silver with Black, Dark Bronze, Gray and White available

Fixture ranges from 15 - 70 Watt LED

Distribution Patterns include Type II, III, IV, and V

- Wattage** - _____
- Distribution** - _____
- Color** - _____
- Finish** - _____

Control Options

Operation for the SolarRatio 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 SolarRatio bracket can either be a long elliptical arm
SP – Side of Pole Bracket ranging from 4' to 8' or a short arm
ST – Side of Pole Tenon Bracket ranging from 5" to 24".
The brackets mount directly to any pole.

- SP4** - Side of Pole Bracket 4'
- SP6** - Side of Pole Bracket 6'
- SP8** - Side of Pole Bracket 8'
- ST5** - Side of Pole Tenon 5"
- ST24** - Side of Pole Tenon 24"

Pole Options

The SolarRatio 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: _____
