

# SEPA300-QS



## SOLAR ELECTRIC POWER ASSEMBLY

### Features & Benefits:

- The SEPA300 features two 150 Watt solar panels mounted to our double support power bracket, optional full panel backside sheet metal protection.
- The 328 Amp hour battery is contained within a vented aluminum battery box and includes a wiring harness and control electronics.
- There are 14 different controllers to chose for different types of applications such as dusk to dawn dusk activated, motion detector, etc.
- The systems are built for easy installation with quick connect terminals, easily mounted to a wall, roof, or pole.
- Every system is available to produce DC or AC power depending on the needs of the device.
- Meets AASHTO wind force ratings.
- Powder coating and custom design available.
- 5 year maintenance free and system warranty up to 25 years (see warranty).



### Panel Assembly

A SEPA300 single array consists of two 150 Watt modules which are mechanically fastened to a vented aluminum panel pan with stainless steel fasteners, optional full panel backside damage prevention, and terminated in pre-wired 3 prong Molex type connector. Solar array produces 16.1 +/- amps charge current (22.22 +/- with MPPT) and measures approximately 59.1" L x 53.2" W x 1.4" D (varies depending on stock). The array has a 10 year warranty for 10% power loss and 25 year warranty for 20% power loss. Solar array has a life cycle testing and actual field proven life of over 30 years.

### Battery Assembly

A vented aluminum enclosure containing four 82 amp hour sealed GEL batteries, totaling 328 amp hours, which are integrally mounted and pre-wired to include a standard wire harness with simple plug in connections for the SEPCO ALC Adaptive Lighting Control and the solar panel assembly. The low profile design contains a preformed and welded back mounting plate for easy slide on attachment to the power bracket. Battery assembly contains SEPCO unique "Through the Pole" rear wire routing output for no exposed wiring to provide a neat clean appearance for the finished installation. The battery is warranted for 5 years. Battery assembly is complete with all stainless steel mounting hardware. All metal crafting has been performed by high speed robotic presses using computer programmed instructions.

### Power Bracket

An all aluminum, unique double support power bracket (5° or 45°) consists of a substantial aluminum channel affording mounting to any pole or wall. Circumference welding of strong 2-1/4" aluminum tubing in a double support arrangement to provide maximum strength for wind loading. The power bracket contains predrilled and tapped battery slide mount bolts of stainless steel and two 11/16" mounting holes for up to 5/8" diameter mounting bolts. The bracket contains the unique "Through the Pole" wire hole for no exposed system wiring. SEPCO solar electric power assemblies have proven themselves as the most rugged and robust design in thousands of installations worldwide since their introduction in 1994. SEPCO systems surpass all codes, compliances, and quality controls.