

## SolPol Retrofit System (“SRS”) Overview

The SolPol Retrofit System (SRS) is designed to upgrade existing light poles from conventional electric powered to “solar wrapped” solar powered lighting. The SRS includes an LED fixture, wraparound PV modules, battery and electronics and remote control. The SRS can also power an existing LED fixture.

The SRS addresses several common issues with existing street and parking lighting:

- Eliminates copper wire theft which leaves city areas in the dark, eliminating the costly repeated repairs required.
- Achieves energy efficiency goals, converting high wattage lighting to LED, then powering the LED light with solar, eliminating electric costs.
- Improves illumination and safety and reduces maintenance through updated lighting design and extreme long lasting light fixtures. The SRS LED light fixture produces at least 170 lumens per watt - 60W fixture = 10,200 lumens, 120W fixture = 20,400 lumens, both with a 10-year no light loss guarantee and high color rendering index (CRI).

The SRS has several advantages over conventional solar lighting fixtures / retrofits that use fixed flat PV panels:

- Self-cleaning vertical solar panels versus flat solar panels facing upward that collect dust, dirt and bird droppings which require regular cleaning, or they lose solar gain.
- Greatly reduced wind damage potential.
- 24% greater solar gain throughout the year and throughout the day: as the sun angle changes the cylindrical PV is always facing the sun.
- Custom design capabilities – many of the competitive retrofit products are “All-in-One” fixtures with PV, light and battery in a single fixture, limiting flexibility. The SRS can offer one or two or even three PV modules (200W to 600W) to attach to the pole and adjust the battery size as needed for different locations with varying solar gain, ensuring 365 days of lighting annually.
- For low sun areas, a Vertical Axis Wind Turbine can be added to ensure battery charging.
- U.S. engineered, U.S. made, UL 8801 complete solar system certification.

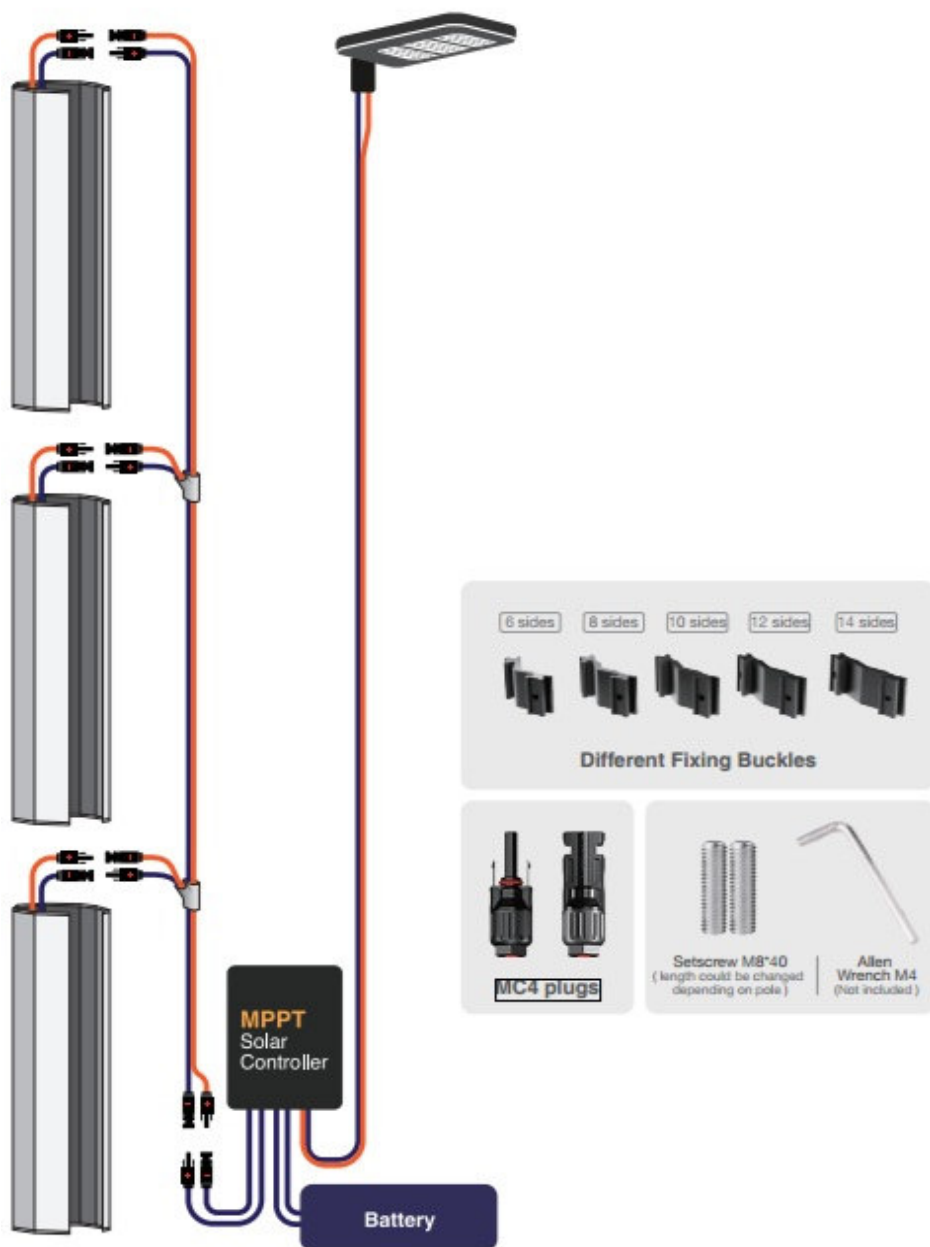
The SRS offers plug-and-play wiring between components for ease of installation. The SRS kit will include all mounting hardware for the PV module(s), electrical enclosure and LED light fixture.

**Let us design your custom SolPol Retrofit System to address your lighting issues, today.**

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## SolPol Retrofit System Wiring Diagram



## SRS Attached to a Light Pole



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