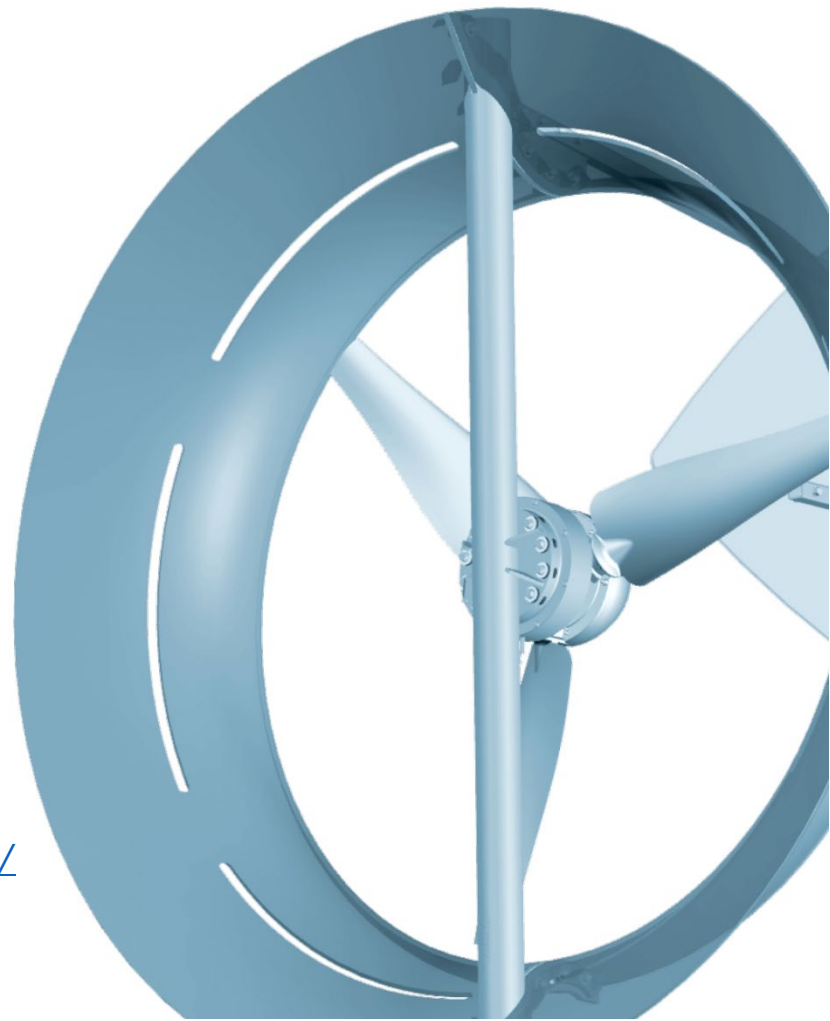




# Wind and Solar Off-Grid Lighting/Power Solution

## The Aris Wind Smart Pole



[www.aris-re.com/ariswind-rpu/](http://www.aris-re.com/ariswind-rpu/)  
Mount Vernon, NY 10550, USA

# Aris Wind's Off-Grid Smart Pole



The complete renewable lighting solution

*A renewable off-grid lighting solution with the power, efficiency & reliability to work in a wide range of environments & remote locations*

The off-grid Smart Pole is the natural choice for providing reliable, independent lighting on roadways, walkways, parking lots and recreation areas.

The “enhanced” wind turbine technology enables a shorter and smaller, yet more powerful wind power generator.

## Aris Wind Smart Pole Product Specification Sheet

### Wind Power (Permanent Magnetic Generator)

|                    |                 |
|--------------------|-----------------|
| Rated Power Output | 480W            |
| Rated Wind Speed   | 20 mph (9 m/s)  |
| Cut in Wind Speed  | 4.5 mph (2 m/s) |

### Solar Power

|                    |                          |
|--------------------|--------------------------|
| Number of Panels   | 2 Monocrystalline Panels |
| Rated Power Output | 940W                     |

### LED Lighting

|                  |                           |
|------------------|---------------------------|
| Number of Lights | 1 or 2 lamp arms/fixtures |
| Wattage/Fixture  | 80W Dimmable              |
| Max Lumen Output | 14,400 lumens             |

### Control System

|                       |                                |
|-----------------------|--------------------------------|
| Charge Controller     | Aris/Huaxiao Hybrid Controller |
| Rated Battery Voltage | 24V                            |

### Batteries

|                    |                                   |
|--------------------|-----------------------------------|
| Type               | AGM (Absorbent Glass Mat)         |
| Number             | (2) 12V Batteries for 24V Storage |
| Capacity (amp-hrs) | 230 - 260 Ah                      |

### Tower

|                   |                             |
|-------------------|-----------------------------|
| Material          | Hot Dipped Galvanized Steel |
| Powder Coat Paint | White                       |

# No Trenching, No Grid Interconnect for an Easy Installation



The Smart Pole is assembled on its horizontal axis for easy access to all parts of the tower. It is then tilted into place using heavy machinery for a quick install.



The Smart Pole utilizes a duct augmented wind turbine (DAWT) system. Air is accelerated by the enhancement unit, increasing blade rpm and the turbine power generation. The enhancement unit also enables the turbine to “cut on” sooner and quickly increase power output at low wind speeds. This is a critical feature in this off-grid lighting and auxiliary power application - a steady trickle charge for many hours/day maintains higher battery voltages and more powerful and reliable lighting, and an improved battery life.



# Key Benefits

- Works reliably in low wind resource areas, including many urban settings
- Maximizes LED lighting capacity (and output lumens)
- Ability to power small auxiliary loads beyond lighting such as camera/CCTV Equipment, USB Charging ports, etc.
- Sustainable, independent renewable power
- Standby energy storage for up to five days
- Aesthetic design enabling customer to showcase their brand/message on optional 6'x2' banner
- Programmable light dimming feature
- No underground electric wiring required

# Optional Extras

- USB Charging Ports
- Wrap-around standing table
- Ability to power customer's 3rd Party Security/CCTV equipment
- Dual light arm (x2 LED Lights)
- Wi-Fi
- 4G Router monitoring system

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To learn more please contact Aris Wind (contact info below). Aris welcomes inquiries from end users and sales channel partners.

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