



EverLast® PVW Hybrid Induction Lighting System (PATENT PENDING)

Going **GREEN** Has Been Redefined



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### Hybrid - Photo Voltaic and Wind Powered Turbine

EverLast® PVW is a solar and wind powered area light system, topped by a wind turbine, two solar panels, and batteries to store energy. Energy-efficient, sensor controlled EverLast® induction lamps make this green technology possible.

EverLast® PVW system is compact and completely off the grid, allowing consumers to reduce spending by eliminating energy and maintenance costs associated with other lighting systems.

- Lamp Life Rating: 100,000 hours
- Lumen Maintenance: 70% over 100,000 hours
- Light Output: 5000K, 82-85 CRI
- IP Rating: IP65

### Available Fixtures



#### U.S. Made Type III Smart Series Cobra

- ECHUS-EC-70W-BL
- Type III Distribution
- EPA: 1.6ft<sup>2</sup>
- 80% Recycled Polycarbonate Fixture Housing



#### U.S. Made Type IV Smart Series Shoe Box

- ESBUS-EC-70W-BL
- Type IV Distribution
- EPA: 1.7ft<sup>2</sup>
- 80% Recycled Polycarbonate Fixture Housing

### Application Image



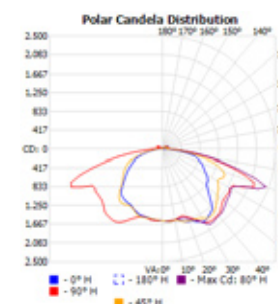
State Mini Storage, Bath MI



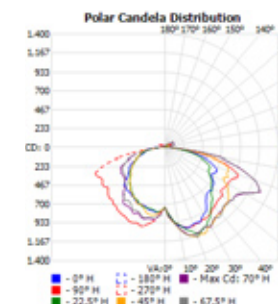
Parking Lot Application

### Photometric Data

ECHUS-EC-70W-BL Cobra Head



ESBUS-EC-70W-BL Shoe Box



### Specifications

Description	500 watt wind turbine
Rated Output Power (W)	500
Max. Output Power (W)	600
Rated Wind Speed (m/s)	12.5
Rated Rotation Speed (rpm)	900
Start-Up Wind Speed (m/s)	2.3
Cut-In Wind Speed (m/s)	3
Rotor Diameter (ft.)	8.5 ft.
Blade Material	Fiber Glass
Governor System	Yaw System
Shut-Down Mechanism	Electromechanical
Battery System (Volts)	24V
Battery Description	Sealed AGM 210 Ah
PVW Hybrid Controller	Included
Over-Speed Protection	yes
Low-Voltage Protection	yes
Over-Voltage Protection	yes
Solar Module	Monocrystalline type
Max. Output Power	175W (1) / 350W (2)
Voltage at Max. Power (Vmp)	35.2V
Current at Max. Power (A)	4.95A (1) / 10A (2)
Open-Circuit Voltage (Voc)	44.6
Short-Circuit Current (Vsc)	5.2
Street Lamp	70W Bi-Level Cobra or Shoe Box induction Fixture
System Height (ft.)	44.25 ft.

**\*Legal Notice:** Full Spectrum Solutions owns proprietary rights in the EverLast® Remote Induction Street Light in the form of patent pending applications in the US and PCT applications for International protection. The designs for remote outdoor applications is unique only to EverLast® and is covered by claims filed with the US Patent and Trademark Office in Alexandria, VA in the form of U.S. Patent Application No. 12/248,693 entitled, "Hybrid Lighting Device". Other utility and design patents pending. PCT International Patent Application No. PCT/US2008/082939. Patent questions can be addressed in writing to the Law offices of: Lowe, Hauptman, Ham & Berner, LLP located at Suite 300, 1700 Diagonal Road, Alexandria, Virginia 22314 -- Patent Attorneys.

888.383.7578



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## EverLast® PVW Hybrid Induction Lighting System (PATENT PENDING)

The All Climate Sustainable Lighting Solution



The EverLast® PVW Hybrid performs under all conditions utilizing two of Mother Natures resources - Sun and Wind.

### Lighting Research Partners and Affiliations

Full Spectrum Solutions Inc. works directly with research partners and testing facilities worldwide to bring the most innovative lighting solutions to the marketplace.

- University of California, California Lighting Technology Center
- University of Michigan, Enhanced Spectrum Lab
- IESNA, The Illuminating Engineering Society of North America
- Berkeley License, Berkeley National Laboratory
- SBIC, Sustainable Buildings Industry Council
- AWEA, American Wind Energy Association
- American Lighting Association
- U.S. Green Building Council Member



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