



Ubilux presents Concept street light.
 A line of street lamps powered by solar energy and wind power. Ideal for illuminating areas that are not electrified, the Concept street light self-fueling system finds its ideal use in street lighting and in rural areas.

Why choosing it
 A product designed to ensure 72 hours autonomy in total absence of recharging sources, with programmed ignitions up to twelve hours per night. Easy to install, it ensures instant accessibility to components for maintenance and repair operations. Its modular design also makes it possible to operate easily, reducing response times and maintenance costs. A special LED lamp ensures excellent visibility to drivers and pedestrians, concentrating the luminous flux where necessary.

Concept street light can be powered either by photovoltaic energy, wind power or by a combination of the two sources, always ensuring totally eco-friendly high performances.



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REVISIONE N. 0 SETTEMBRE 2015










CONCEPT
 HYBRID STREET LIGHT










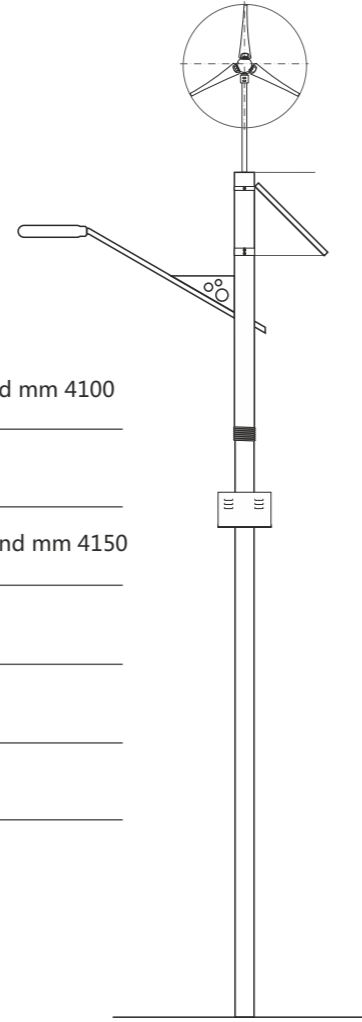
CONCEPT HYBRID

Street Light System Solar-Wind LED

-  Total height outside ground mm 9800 (excluding wind turbine)
-  Plate burying mm 110
-  Thickness mm 4
-  Pole diameter mm 193,7
-  Wind turbine pole diameter mm 54
-  Total weight kg 265
-  Plinth dimensions mm 1200x1200x1000h
-  Lamp distance from ground mm 8000

Solar & Wind Controllers with protection functions

-  Batteries distance from ground mm 4100
-  PV module inclination 45°
-  Controller distance from ground mm 4150
-  PV module power 250W
-  LED lamp power 70W
-  Wind turbine power 400W
-  Battery 2x12V/150Ah



WITHOUT THE NEED OF GRID CONNECTION

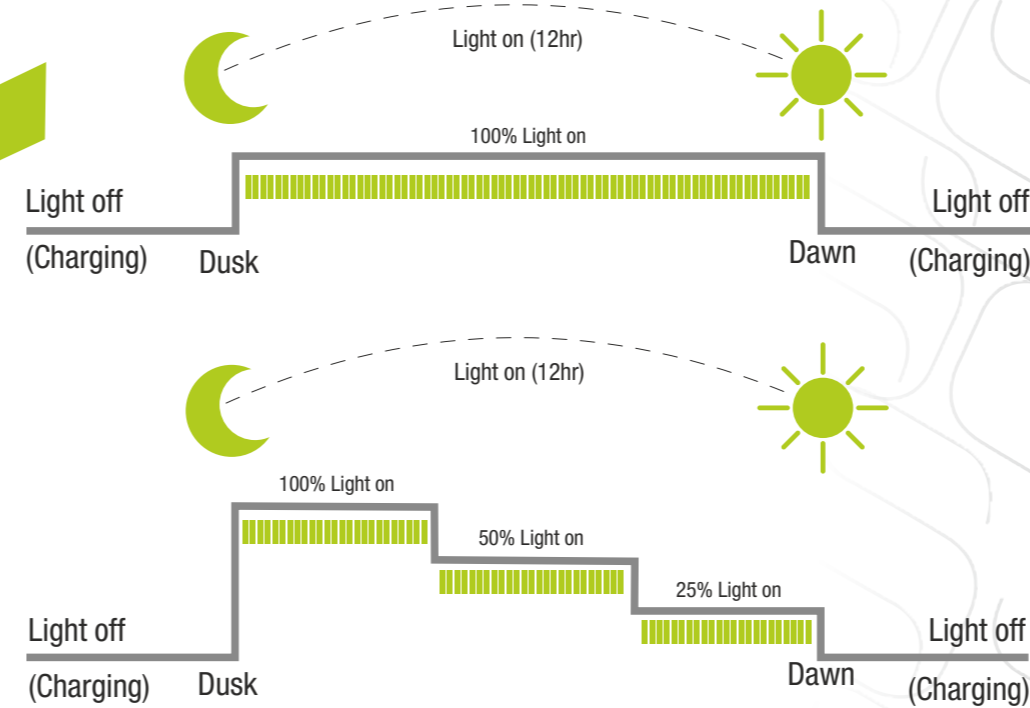
High efficiency, low cost and long service time all in one system .

The photovoltaic solar cells in the solar panel convert the solar radiation during the day into electrical energy, during the night or if it is cloudy, the wind turbine convert the wind into electrical energy. The electrical energy is stored in batteries through the monitoring and manipulation if the controllers. At the night when the ambient light decreases below a set level sensed by the photo sensor linked to the controller, the battery will discharge to light up the street light. The system has the ability to detect external anomaly and protect all components. The following diagrams provide an overview of the connections.



System Work Mode

Turn-on/off voltage range setting & dimming profile can be fine tuned based on installation site environment & customer request. The following diagram show two typical working modes.



Characteristics Micron 60P Advance CA250P60	
Dimensions (±3mm)	1658x994x32,80 mm
Maximum power	250W
Cells	60 photovoltaic polycrystalline silicon cells with 3 busbars
Smooth Glass	Tempered, prismatic, antireflection, low iron content, thickness 3.2mm.
Frame	32,80 mm thick aluminium frame, anodized or silver painted coating (matt RAL 9006).

Concept lamp LED 70W	
LED	24
Power	70W
Dimension	445x370x81
Color temperature	3000k, 3500k, 4000k, 6000k more options upon request
Material	Aluminum alloy body with stainless steel screws

Parameter Value WIN-CP400T Turbine parameter	
Rated power	400W
Maximum power	430W
Blades material	Nylon fiber
Generator case	Casting aluminum alloy
Speed regulation	Automatically adjust windward direction

Deep cycle gel battery CP150B 12V150AH	
Dimensions (±2mm)	485x170x240 mm
Nominal Voltage	12V
Weight	41.7kg
Terminal	T11
Container Material	ABS

Applications

- ◆ Street Lighting
- ◆ Roadway Lighting
- ◆ Pathway Lighting
- ◆ Ramp Lighting
- ◆ Sidewalk Lighting
- ◆ Private Road Lighting
- ◆ Farm Lighting
- ◆ Wildlife Area Lighting
- ◆ Perimeter Security Lighting
- ◆ Park Lighting
- ◆ Gate Lighting
- ◆ Railway Yard Lighting
- ◆ Fence Lighting
- ◆ Campus Lighting
- ◆ Ship Dock Lighting
- ◆ Remote Area/Villages Lighting
- ◆ Military Base Lighting

Benefits

- ◆ No line voltage, trenching, or metering
- ◆ No power outages
- ◆ Battery backup for cloudy or rainy days
- ◆ Easy to install
- ◆ Low maintenance
- ◆ No cost of transformers or meters to be added for electric service
- ◆ Qualify for savings from various state taxes and incentives
- ◆ No monthly electric bills
- ◆ Controlled charging to prolong battery service life
- ◆ Long-life PV modules with more than 25 years of power generation capacity
- ◆ Environment friendly -100% powered by the sun and by the wind, solar panels reduce fossil fuel consumption, eliminating pollution
- ◆ IP 66 Luminaire ensures long lasting and consistent high performance
- ◆ Self-contained solution -Light on/off controlled by automatic daylight sensing
- ◆ No running cost
- ◆ Better and long life light source -LED lights feature white light without flickering and instant on
- ◆ Safe 12/24 volt circuit, no risk of electric shock.

