



WIND AND SOLAR HYBRID LED STREET LIGHT

NeoluxHybrid Series

NEOLUXLED, a leading LED lighting company from Shanghai, is committed to providing quality LED lighting products for customers all around the world. To date, we have delivered over 60,000 installations of LED street lights.

The NeoluxHybrid series wind / solar hybrid LED light unit is a green lighting solution which requires no civil electricity and cable lying.

With solar panel and wind turbine combination, The NeoluxHybrid street lighting unit is capable to provide 2000-10000 lumens for 30 to 50 hours of lighting. Poles are made to British Standards and customized to buyer's country wind code.



FEATURES AND ADVANTAGES

Low-cost installation. No trenching, no heavy cable, quick and easy installation anywhere, has lights in days not months.



- Ultra-low maintenance and long product life. 25 years warranty on solar panels, LED/Induction lighting fixture is rated for 50,000 hours of maintenance free operation. Sealed deep cycle maintenance free battery.
- Green light source. 40-70% less power consumption than traditional light sources. Neolux LED/Induction lights emit no light pollution, provides bright white light which improves color recognition and improves night visibility from 400%-1000% over traditional light sources.
- Flexible configuration. Neolux solar lights can be easily configured to suite your requirements with solar module, wind module and battery banks of various sizes.
- Advanced control unit. Our Solar light controller provides easy configuration, automatic operations and advanced work modes.
- 3-5 days backup power for rainy, cloudy days.
- Grid-independent and No Bill to pay.

Benefits of NeoluxHybrid LED Street Light

- Economical lighting for urban and rural areas
- Enhance neighborhood security
- Power savings in electricity distribution lines for lights
- Fast return on investment
- Environmentally clean image
- Beautifies a modern city
- Advocates energy saving and environmental protection concepts to people



TECHNICAL SPECIFICATION







- NeoluxHybrid Applications**
- Countryside roads
 - conservation areas
 - Remote homes
 - Caravan parks,
 - Industrial buildings, Airfield,
 - Harbor side lightings,
 - And many more



- NeoluxHybrid Settings**
- Keep in mind the following ratio as a guide to determine the right configuration of a hybrid lighting system.*
- 1 W LED light source
 - 1 W Solar PV
 - 4 Ah Storage battery
 - At least 5 times of Turbine

COMPONENTS OF NEOLUXHYBRID

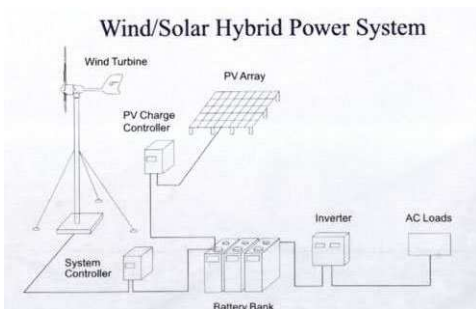
The wind / solar hybrid street lighting unit consists of a 300w to 600w wind power generator, a 20w to 100w solar photovoltaic panel (depending on local sunlight condition) , and a set of 20, 40, 60, 80 and 100 W LED light source, and two 100 to 400ah 12v lead-acid battery units.

 <p>LED Light Source</p>	 <p>Wind Turbine</p>	 <p>Solar PV Module</p>
 <p>Solar Charge Controller</p>	 <p>Turbine controller</p>	 <p>Battery</p>



WORKING METHODS

The wind turbine automatically generates power in windy conditions, and the solar panel converts heat into electricity in sunny weather. Powered generated by the turbine and the panel will be stored in the battery to light up the LED when needed.



SPECIFICATIONS & DATA

Model	NHL-20	NHL-40	NHL-60	NHL-80	NHL-100
Wind Turbine	12V	12V	24V	24V	24V
	300W	300W	400W	400W	600W
Turbine Controller	12V	12V	24V	24V	24V
Solar Module	20Wp	40Wp	60Wp	80Wp	100Wp
	12V	12V	24V	24V	24V
Battery	80Ah x 1	160Ah x 1	240Ah x 2	320Ah x 2	400Ah x 2
System Controller	Sensor controlled with overcharge and over-discharge protection.				
LED light	20W	40W	60W	80W	100W
Pole	3~4m	3~4m	4~5m	6~8m	8~12m

* Specification are subject to change without prior notice.

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