



Street lamp Robusta series with solar and wind power operation

Street lamps are costly to install mostly depending on the long cables for power to lamps. To this we add electricity for maybe 15-20 years life cycle so together this is far more money than the lamp itself. Here we now offer the Robusta street lamps with best performance combined with solar panels and also wind generator of a vertical design. Vertical turbines are very silent compared to propellers and are better close to humans and a calm and nice nature. Noise is also a bad type of pollution.

This design is perfect in rural areas with no power or outside in area like small islands, hiker areas and natural parks. Here we have a nice solution for these areas. Optional USD output for mobile phone chargers is available.

These lamps are available in many combine actions and sizes and can work with all Robusta street lamps.



Wind generator	Rated power 100W
Solar panel	Polycrystalline silicon 18V 50W 270*180*17mm
Light source	3 x 20W COB LED
Battery	Lithium-ion battery 14.8V 12Ah
Light output	5400 Lm
Run time	> 12hrs
Charging time	12hrs
Features	Automatically turn on at night and off in daytime
Remote control	<ul style="list-style-type: none"> ▪ On/Off ▪ Dimmer ▪ 2h/4h/6h/8h timer ▪ 3-phase timer <ul style="list-style-type: none"> - 3h 100%→3h 50%→4h 25% - 1h 100%→3h 50%→4h 20% ▪ Eco-timer <ul style="list-style-type: none"> - 4h 40% - 6h 60%
IP grade	IP65
Material	Die-casing aluminium, tempered glass
Product size	Light 940*340*90mm Wind generator 650*950*800mm
Product weight	Light 7.4kg Solar panel 4kg Wind generator 10.5kg

Rated power	100W
Max. power	130W
Rated voltage	12/24V
Start-up wind speed	2.0m/s
Rated win speed	10.0m/s
Survival wind speed	55m/s
Net weight (main body)	6kg
Rotor diameter	1.2m
Blades	3 pieces
Blade material	Nylon fiber
Generator	Three-phase permanent magnetic synchronous generator
Control system	Electromagnetic
Lubrication type	Filling lubricants
Working temperature	-40°C - 80°C

Example of solution for solar wind street lamps.

If we as example use the 7000 Lumen Robusta lamp system can be as follows. This is for not very sunny areas. Solar panel 100-150W. Wind generator 100W vertical model. Battery Li-Fe-PO 10-12 years life cycle of 40-60AH.

Options can be. PIR detector for sensing area for people and activate / boost up light strength and dimmer.



New option is a 25 year life cycle battery that match the life time of lamp itself. Now we have no real service needed in a 25 year cycle and reduces costs and problems.