



Be Off The Grid.com Inc.
Energy Solutions

“OFF THE GRID” PRODUCT LINE

SOLAR STREET LIGHTING

SOLAR-WIND STREET LIGHTING

SOLAR SIGNAGE

Be Off The Grid.com Inc.
Energy Solutions



SOLAR STREET LIGHTING



LED Street Light	SS56 , 56W, 12VDC(or 24VDC)
Solar Panel	135W*2,monocrystalline or polycrystalline, conversion efficiency: 15%
Battery	150Ah*2,12V, two VRLA Battery
Controller	10A,12V, Solar charger controller
Pole	7 meters high, made of galvanized steel
Working Time	10~12 hours/day, 2~3 cloudy or rainy days backup
Peak Sunshine Hours	5 hours per day average
Wind Resistance	80mph (Please consult with us for higher wind resistant models.)

Energy Solutions

LED Street Light Solar Panel Battery Controller Projects



SYSTEM SPECIFICATIONS

Model Number	LU2
Input Voltage	100-240VAC
Frequency Range	47~63Hz
Power Factor(PF)	> 0.9
Total Harmonic Distortion (Thd)	< 20%
Power Efficiency	85%
Working Voltage	24VDC
LED Consumption	56w
Power Supply Consumption	10w
LED Luminous Efficiency	≥80lm/W
LED Initial Flux	5,000lm (Tj=25°C)
LED Maintain Flux	4,600lm(Tj=60°C,Ta=25°C)
Lamp'S Flux	4,200lm(Tj=60°C,Ta=25°C)
Lamp'S Efficiency (%)	> 90%
Illumination (E)	(Height=6m)≥26 Lux (Replaced Sodium Light Of 65 Lux) (Height=8m) ≥15 Lux (Replaced Sodium Light Of 38 Lux) (Height=10m) ≥9 Lux X (Replaced Sodium Light Of 20 Lux) (Height=12m) ≥6 Lux (Replaced Sodium Light Of 15 Lux)
Effective Illuminated Area	(Height=6m): 20 x 8m (Height=8m):26 x 10m (Height=10m):33 x 13m (Height=12m):40 x 16m
Color Temperature	Pure White: 5,000~7,000k; Warm White :3,000~4,000k
Color Index(CRI)	Ra > 75
Light Source	BBE Emitter (1watt)
Light Distribution Curve/Beam Pattern	Asymmetric (Bat Wing)/ Rectangular Beam
The Highest Light Intensity Angle	120°:The Horizontal Axis:110°, The Vertical Axis:45°; 140°:The Horizontal Axis:130, The Vertical Axis:45°
Beam Angle	120°:The Horizontal Axis:110°, The Vertical Axis:45°; 140°:The Horizontal Axis:130, °The Vertical Axis:45°
Junction Temperature(Tj)	60 °C ±10 %(Ta=25°C)
System Resistance (Rja)	0.56°C/W
Working Temperature	-30 ~ 50
Working Humidity	10%~90%
Storage Temperature	10 ~85
Working Life	50,000 Hrs
Light Body& Lampshade	Aluminum Alloy And PC
The Dimensions(Units: mm)	540(L) x 315(W) x 90(H)
Net Weight	7 Kgs
IP Rating	IP65
Packing	1 pc /Carton
Carton Size	620 x 400 x 205 mm
Container Q'ty (pcs)	20'Q: 561 pcs 40'Q: 1,166 pcs, 40'HQ: 1,378 pcs



SOLAR-WIND STREET LIGHTING



LED Street Light	SW28, 28W, 12VDC(or 24VDC)	
Solar Panel :	65W, monocrystalline or polycrystalline, conversion efficiency: 15%	2pcs
Wind Turbine:	400W 12V/24V	1pc
Battery:	150Ah,12V, two VRLA Battery	2pcs
Controller:	10A,12V, Solar charger controller	1pc
Pole:	6 meters high, made of galvanized steel	
Working Time:	10 ~ 12 hours/day, 2 ~ 3 cloudy or rainy days backup	
Peak Sunshine Hours:	5 hours per day average	
Wind Resistance:	80mph (Please consult with us for higher wind resistant models.)	

Model Number	LU1
Input Voltage	100-240VAC
Frequency Range	47~63Hz
Power Factor(PF)	> 0.9
Total Harmonic Distortion (THD)	< 20%
Power Efficiency	85%
Working Voltage	24VDC
LED Consumption	28W
Power Supply Consumption	7W
LED Luminous Efficiency	≥80lm/w
LED Initial Flux	2,500lm (Tj=25°C)
LED Maintain Flux	2,300lm(Tj=60°C, Ta=25°C)
Lamp's Flux	2,100lm(Tj=60°C, Ta=25°C)
Lamp's Efficiency (%)	> 90%
Illumination (E)	(Height=6 m)≥13 lux (Equal to HPS 33 lux)
	(Height=8 m) ≥7.5 lux (Equal to HPS 19 lux)
	(Height=10 m)≥4.5 lux (Equal to HPS 11 lux)
	(Height=12 m)≥3 lux (Equal to HPS 7.5 lux)
Effective Illuminated Area	20×8 m (Height=6 m)
	26×10 m (Height=8 m)
	33×13 m (Height=10 m)
	40×16 m (Height=12 m)
Color Temperature	Pure White: 5,000~7,000K; Warm White :3,000~4,000K
Color Index(CRI)	Ra > 75
Light Source	BBE Emitter (1Watt)
Light Distribution Curve/Beam Pattern	Asymmetric (Bat Wing)/ Rectangular Beam
The Highest Light Intensity Angle	120°:The Horizontal Axis:110°, The Vertical Axis:45°; 140°:The Horizontal Axis:130, The Vertical Axis:45°
Beam Angle	120°:The Horizontal Axis:110°, The Vertical Axis:45°; 140°:The Horizontal Axis:130, °The Vertical Axis:45°
Junction Temperature(Tj)	60 °C ±10 % (Ta=25°C)
System Resistance (Rja)	0.19°C/W
Working Temperature	-30 ~ 50
Working Humidity	10%~90%
Storage Temperature	10 ~85
Working Life	50,000 Hrs
Light Body& Lampshade	Aluminum Alloy and PC
The Dimensions(Units:mm)	660(L) x 335(W) x 260(H)
Net Weight	13.6 Kgs
IP Rating	IP65
Packing	1 pc /Carton
Carton Size	680 x 350 x 300 mm
Container Q'ty (pcs)	20'Q: 336 pcs 40'Q: 630 pcs, 40'HQ: 714 pcs



LED Street Light :	SW56, 56W, 12VDC(or 24VDC)	1pc
Solar Panel :	65W, monocrystalline or polycrystalline, conversion efficiency: 15%	2pcs
Wind Turbine:	400W 12V/24V – OPTIONAL	1pc
Battery:	12V 100Ah deep cycle gel battery	2pcs
Controller:	Intelligent controller of solar-wind street light	1pc
Pole:	6 meters high, made of galvanized steel	
Working Time:	10 ~ 12 hours/day, 2 ~ 3 cloudy or rainy days backup	
Peak Sunshine Hours:	5 hours per day average	
Wind Resistance:	80mph (Please consult with us for higher wind resistant models.)	

Model Number	LU2
Input Voltage	100-240VAC
Frequency Range	47~63Hz
Power Factor(PF)	> 0.9
Total Harmonic Distortion (Thd)	< 20%
Power Efficiency	85%
Working Voltage	24VDC
LED Consumption	56w
Power Supply Consumption	10w
LED Luminous Efficiency	≥80lm/W
LED Initial Flux	5,000lm (Tj=25°C)
LED Maintain Flux	4,600lm(Tj=60°C, Ta=25°C)
Lamp'S Flux	4,200lm(Tj=60°C, Ta=25°C)
Lamp'S Efficiency (%)	> 90%
Illumination (E)	(Height=6m)≥26 Lux (Replaced Sodium Light Of 65 Lux)
	(Height=8m) ≥15 Lux (Replaced Sodium Light Of 38 Lux)
	(Height=10m) ≥9 Lux X (Replaced Sodium Light Of 20 Lux)
	(Height=12m) ≥6 Lux (Replaced Sodium Light Of 15 Lux)
Effective Illuminated Area	(Height=6m): 20 x 8m
	(Height=8m):26 x 10m
	(Height=10m):33 x 13m
	(Height=12m):40 x 16m
Color Temperature	Pure White: 5,000~7,000k; Warm White :3,000~4,000k
Color Index(CRI)	Ra > 75
Light Source	BBE Emitter (1watt)
Light Distribution Curve/Beam Pattern	Asymmetric (Bat Wing)/ Rectangular Beam
The Highest Light Intensity Angle	120°:The Horizontal Axis:110°, The Vertical Axis:45°; 140°:The Horizontal Axis:130, The Vertical Axis:45°
Beam Angle	120°:The Horizontal Axis:110°, The Vertical Axis:45°; 140°:The Horizontal Axis:130, °The Vertical Axis:45°
Junction Temperature(Tj)	60 °C ±10 % (Ta=25°C)
System Resistance (Rja)	0.56°C/W
Working Temperature	-30 ~ 50
Working Humidity	10%~90%



Be Off The Grid com Inc. – 1 Shawnee Church Road - Shawnee on Delaware PA 18356



LED Street Light :	SW112, 112W, 12VDC(or 24VDC)	1pc
Solar Panel :	85W, monocrystalline or polycrystalline, conversion efficiency: 15%	2pcs
Wind Turbine:	800W 12V/24V	1pc
Battery:	12V 150Ah deep cycle gel battery	2pcs
Controller:	Intelligent controller of solar-wind street light	1pc
Pole:	6 meters high, made of galvanized steel	
Working Time:	10 ~ 12 hours/day, 2 ~ 3 cloudy or rainy days backup	
Peak Sunshine Hours:	5 hours per day average	
Wind Resistance:	80mph (Please consult with us for higher wind resistant models.)	

Model Number	LU4
Input Voltage	100-240VAC
Frequency Range	47~63Hz
Power Factor(PF)	> 0.9
Total Harmonic Distortion (Thd)	< 20%
Power Efficiency	85%
Working Voltage	24VDC
LED Consumption	112w
Power Supply Consumption	20w
LED Luminous Efficiency	≥80lm/W
LED Initial Flux	10,000lm (Tj=25°C)
LED Maintain Flux	9,300lm(Tj=60°C,Ta=25°C)
Lamp'S Flux	8,400lm(Tj=60°C,Ta=25°C)
Lamp'S Efficiency (%)	> 90%
Illumination (E)	(Height=6m)≥53 Lux (Replace Sodium light of 132 Lux X) (Height=8m) ≥30 Lux (Replace Sodium light of 75 Lux) (Height=10m) ≥18 Lux (Replace sodium light of 45 Lux) (Height=12m) ≥13 Lux (Replace sodium light of 33 Lux)
Effective Illuminated Area	(Height=6m): 20 x 8m (Height=8m):26 x 10m (Height=10m):33 x 13m (Height=12m):40 x 16m
Color Temperature	Pure White: 5,000~7,000k; Warm White :3,000~4,000k
Color Index(CRI)	Ra > 75
Light Source	BBE Emitter (1watt)
Light Distribution Curve/Beam Pattern	Asymmetric (Bat Wing)/ Rectangular Beam
The Highest Light Intensity Angle	120°:The Horizontal Axis:110°, The Vertical Axis:45°; 140°:The Horizontal Axis:130, The Vertical Axis:45°
Beam Angle	120°:The Horizontal Axis:110°, The Vertical Axis:45°; 140°:The Horizontal Axis:130, °The Vertical Axis:45°
Junction Temperature(Tj)	60 °C ±10 % (Ta=25°C)
System Resistance (Rja)	0.56°C/W
Working Temperature	-30 ~ 50
Working Humidity	10%~90%
Storage Temperature	10 ~85
Working Life	50,000 Hrs
Light Body& Lampshade	Aluminum Alloy And PC
The Dimensions(Units: mm)	715(L) x 315(W) x 90(H)
Net Weight	7 Kgs
IP Rating	IP65
Packing	1 pc /Carton
Carton Size	790 x 400 x 205 mm
Container Q'ty (pcs)	20'Q: 385 pcs 40'Q: 792 pcs, 40'HQ: 936 pcs



LED STREET LIGHTS

High Power LED Street Lights is a kind of innovative and energy-saving product that utilizes high power led's as lighting source. Our LED lighting products such as LED street lights and LED bulbs can work with very wide range voltage from 110VAC to 270VAC. The LED color spectrum contains no ultraviolet light, infrared rays, heat or radiation produced. Our LED Street Lights series are sort of "green" lighting source.

The lamp framework is made of aluminum-alloy through die-casting, which is covered by fluorocarbon powder sprayed in electrostatic. The lens of LED Street Lights lamp is made of high quality transparent polycarbonate, which is highly lucent, dust-proof, and waterproof. Our whole set LED Street Lights uses Aluminum for fasteners, the product is safe, reliable, and has low energy-consumption and a long working- life span. Our LED Street Lights are especially suitable to be used in public places such as open squares, streets, and roads.

CURRENT PRODUCTS AVAILABLE

No.	Model No.	Model Name	Picture	Power	Lumens	Emission Color	Working Voltage	Lamp Base	MOQ	
5	LU1	LED Street Light		28W	2,427lm	Pure White Or Warm White	85-264VAC 50/60Hz 12/24VDC	U-Bracket	5	
6	LU2	LED Street Light		56W	4,854lm	Pure White Or Warm White	85-264VAC 50/60Hz 12/24VDC	U-Bracket	1	
7	LU4	LED Street Light		112W	9,707lm	Pure White Or Warm White	85-264VAC 50/60Hz 12/24VDC	U-Bracket	1	
WARRANTY PERIODS – 2 – 3 Years or 50K Hours										

Significant shipping savings if delivery is over 45 day

ALL DETAIL SPECIFICATION ARE ON THE WEBSITE AND AVAILABLE FOR DOWNLOAD

WARRANTY LU1 = 59K Hrs or 24 Months
 LU2 = 50K Hrs or 36 Months
 LU4 = 59K Hrs or 36 Months

DELIVERY LEAD TIME = 30 – 45 days from payment

UL APPROVED STREET LIGHTS AVAILABLE UPON REQUEST

VISIT www.beoffthegrid.com for more details on LED Street Lights

WHY LED STEET LIGHTS



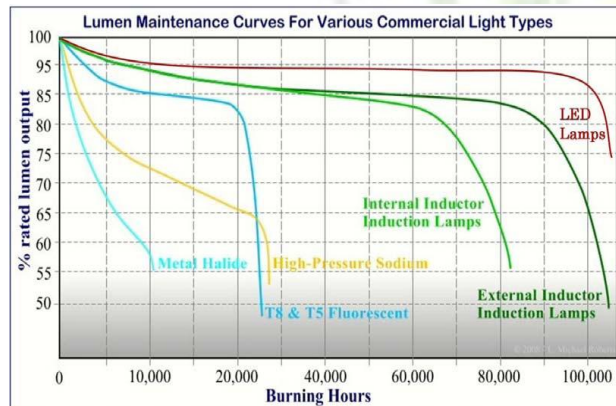
1. Specifications on all LED Street Light (LU and LD Series) are available on website www.beoffthegrid.com

2. Pros

- a. Better Lighting
- b. Self contained units
- c. UL APPROVAL



- d. Lower Maintenance Cost



e. CONS

IN THE PAST! UL approval seems to be a must on most bids. Currently our manufacturer is working on UL and most of the LU series bulbs are currently UL pending

3. Warranty

- a. SP90 is 12 Months
- b. LU1 is 24 Months
- c. LU2 – LU8 are 36 Months
- d. **LD Series – UL APPROVED and 5 YEAR WARRANTY**

4. Website: www.bestledstreetlights.com



SOLAR STREETLIGHT COMPONENTS

Solar-Wind hybrid streetlight is an intelligent, small scale and off-grid LED street light system. Composed of solar modules and the wind turbine, PV deep cycle batteries, controller and a LED streetlight, this hybrid streetlight takes solar/wind as energy source and utilizes the energy for the lighting automatically during the night.

The Hybrid LED Street Light is a remarkable stand-alone street light which produces and stores the power it produced from the wind and the sun. No underground wires or services are required. On top of the pole is a wind turbine that harnesses wind SILENTLY from any direction, regardless of changes in wind direction and gusting. Along with the wind turbine is a solar panel on an articulating arm that is optimally positioned during the pole installation process to take advantage of as much sunlight as possible – best angle and facing south. All of the generated power is stored in a batteries located at the base of the pole. The lighting is a high-efficiency LED Street light that is as bright and intense as a traditional sodium vapor bulb

SOLAR PANELS



Maximum Power(W)	135W
Optimum Power Voltage (Vmp)	17.5V
Optimum Operative Current(Imp)	7.71A
Open Circuit Voltage(Voc)	21.6V
Short Circuit Current(Isc)	8.63A
Solar Cell:	156*156 Mono
Number of Cell(pcs)	4*9
Brand Name of Solar Cells	----Cell
Size of Module(mm)	1480*670*35
Caple & Connector Type	Pass the TUV Certificate
Frame (Material Corners, etc.)	Aluminium-alloy
Backing (Brand Type)	TPT
Weight Per Piece(KG)	12
Junction Box Type	Pass the TUV Certificate
Tolerance Wattage (e.g.+/-5%)	±5%
Front Glass Thickness(mm)	3.2
Temperature Coefficients of Isc(%)°C	+0.04
Temperature Coefficients of Voc(%)°C	-0.38
Temperature Coefficients of Pm(%)°C	-0.47
Temperature Coefficients of Im(%)°C	+0.04
Temperature Coefficients of Vm(%)°C	-0.38
Temperature Range	-40°C to +85°C
Surface Maximum Load Capacity	2400Pa
Allowable Hail Load	23m/s ,7.53g
Bypass Diode Rating(A)	12
Warranty	90% of 10 years,80% of 25 years.
Standard Test Conditions	AM1.5 1000W/m² 25 +/-2°C
Packing	
1*20'	Pallets / pcs
1*40'STD	Pallets / pcs



WIND TURBINE

**WIND OPTION
CAN BE ADDED ONTO
A SOLAR
STREET-LIGHT
PACKAGE**

Model	WT400
Rated Power	400W
Voltage	12/24V
Starup Wind Speed	2.8m/s
Cut-in Wind Speed	3m/s
Rate Wind Speed	15m/s
Cut-out Wind Speed	20m/s
Survived Wind Speed	50m/s
Charge indicator	When on charging, bright light
Controller Indication	Under voltage, Low voltage, Middle-high voltage, Over voltage
Manostate function	14.5VDC (12V system) / 29VDC (24V system)
Over-vol Protection	14.5VDC (12V system) / 29VDC (24V system)
Under-vol Protection	10.5VDC (12V system) / 21VDC (24V system)
Overload Protection	100~120% / 120~200% / >200% Automatic lock in 25sec / Automatic lock in 1sec / Automatic lock in 0.1sec
Output Waveform	Pure oscillation (distortion<3%)
Charging Current	Maximum other charging current 18A, CPU controls charge
Blade Material	Fiber Glass & Nylon
Roter Diameter	1.7m
Storm Stand	Up to 50m/s
Weight	22 kgs
Size(cm)	110x60x20
Mast Height(m)	10m
Battery	100Ah/12V



BATTERY

Cells Per Unit	6
Voltage Per Unit	12
Capacity	150Ah@10hr-rate to 1.75V per cell @25°C
Weight	Approx. 44.5 Kg
Max. Discharge Current	1,500 A (5 sec)
Internal Resistance	Approx. 4 M ω
Operating Temperature Range	Discharge: -20~60°C Charge: 0~50°C Storage: -20~60°C
Normal Operating Temperature Range	25±5°C
Float charging Voltage	13.6 to 13.8 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	54 A
Equalization and Cycle Service	14.6 to 14.8 VDC/unit Average at 25°C
Self Discharge	Batteries can be stored for more than 6 months at 25C. Self-discharge ratio less than 3% per month at 25C. Please charge batteries before using
Terminal	Terminal F5/F12
Container Material	A.B.S. (UL94-HB) , Flammability resistance of UL94-V1 can be available upon request.
Dimensions (mm)	483(L)170(W)240(H)



CONTROLLER

The Intelligent Solar/Wind hybrid LED street light controller can converse AC generated by wind turbine and DC generated by solar panel and store in the battery. According to the advance micro control function, it makes the solar panel offers the MPPT charging, and increase charging efficiency up to 30%. It can be set with ON/OFF time and automatically adjust charging and discharging time and lighting power according to energy remain in the battery. The item owns many technical patents.

Model	HC28
Wind Power Generate Input	Three Level AC≤60V, P≤400W
Wind Power Generate Control Mode	PWM
Over-Voltage Input Protection	AC60±5V
PV Battery Input	(MPPT)
PV Charging Control Mode	DC35Vpm, P≤500W
Over-Current Input Protection	DC20±5A
Battery Applied	24V, 100-200Ah
Battery Full Charge Voltage	DC22±0.3V
Battery Full Recharge Value	DC24±0.3V
Battery Average Charge Value	DC28.8±0.3V
Battery Float Charge Value	DC27.5±0.3V
Battery Full Recharge Value	DC27.5±0.3V
Output Branch	1
Dimension	234x149x75mm
Working Temperature	-40°C to +50°C,
Working Humidity	0-90%

Be Off The Grid.com Inc.

Ask your local representative to review your projected savings and cost based on your operation using our interactive PROJECT SPREADSHEET. Visit or website: www.beoffthegrid.com for additional energy solutions using LED Technology.

Each project is reviewed by manufacturer engineers to insure that we make every effort to exceed your expectation.

REQUEST PRODUCT and PROJECT PRICING FROM YOUR REPRESENTATIVE



Samples of LU2 Solar Installation

Solar LED Street Light, LU2 there.



With 56W power consumption, can generate 4,200lm Luminous Flux, which can replace the 250w High Pressure Sodium Street light directly.



You can see what's the major difference of BBE LED Street Light, you can see the unique rectangular beam pattern, it is designed for the road lighting and it is the best solution in the world. Also you can see the brightness uniformity on the ground, there is no any traditional street light can compare.



OVERVIEW OF COMPANY AND MANUFACTURE

Thank you for considering Be Off The Grid com Inc., our manufacturer offers a full line of LED Street Lights, LED Light Bulbs, LED Traffic Lights Factory, Manufacturer facility. Our manufacturer has been engaged in LED application products since 1992

- **First Manufacturer** to research, develop, manufacture and sell **LED Street Lights**
- **Founder of Modularization LED Street Lights**, laid the standard of LED Street Lights
- **Rectangular Beam Pattern's Inventor and Patent Owner**
- First manufacturer using **Automatic Eutectic Solders Packaging** high-power LEDs
- First manufacturer using **Automatic Assembly, Aging and Testing Production Line**
- Exported more than 20,000 LED Street Lights in 2009
- Exported to more than **130 Countries**, the most countries installed in the overseas market
- has become one of the world's most famous brands of LED lighting

Our Brilliant Solar Street Lighting System is an integrated IP65 rated kit designed to provide a cost effective, standalone solution to all street lighting requirements. Using the most efficient LED lamps available mated to a solar panel and high quality battery, this product is not only an environmentally friendly option (requiring no power input) but can also be located anywhere regardless of local grid availability.

Engineered to provide sufficient lighting whatever the weather conditions, Brilliant Solar Street Lights are also supplied with an electronic controller that automatically turns the unit on and off whenever necessary, and regulates the brightness of the lamp to ensure maximum efficiency. Like all of our products, the Brilliant Solar Street Lighting System has also been designed with reliability and low maintenance in mind throughout the life of the product.

Be Off The Grid com Inc. strives to exceed your expectation and will price our products to assist our client to move forward "SAVING THE PLANET –ONE LIGHT AT A TIME" .

Best prices for the quality offered

Be Off The Grid.com Inc.

VISIT OUR WEBSITE

**Review our products and service
"NO GLARE LED TUBE LIGHTING"**

www.beoffthegrid.com

Thank you for your consideration
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