

PHILIPS

Public Lighting



Solar street lighting brochure 2014

Solar

street lighting



Solar LED street lighting



GreenLine
43W



Minigreen
21W, 28W



GreenLine Smart
12W, 15W, 20W



Selina
8W, 15W

The sun is an in-exhaustive, reliable, non-polluting source of power. Concerns over global climatic change, local air pollution and resource scarcity make photovoltaic (PV) an increasingly attractive energy supply technology. Using solar energy with LEDs instead of CFL provides a very efficient solution. Solar powered outdoor lighting products are ideal for lighting the area in remote locations where the electricity is unavailable or erratic. Even in urban areas, these find great usage to reduce dependency on conventional power and contribute towards green energy. Reliable and long life makes this solution effective in fulfilling our present and future lighting requirements.



Philips LED Added solution benefits

	Philips Solution	Advantage
Luminaire	Aluminium housing	Strong and safe
	LEDs for light source	Excellent heat dissipation IP65 protection High brightness and high efficacy of more than 100lm/W new age LEDs
	Optics	Optical engineering for uniform light distribution
	High efficiency driver & MPPT charge controller	Low power consumption meets IEC standards
Solar panel	Polycrystalline solar cells	Mature technology Improving Efficiency More Rugged Ease of availability
	Battery	Tubular construction
Battery	75% Depth of Discharge	Long Life
	Polymer/Galvanised battery box	Weather-proof
	3 days autonomy	Long back-up Ideal for cloudy conditions
Pole	Galvanised pole	Rigid and safe Corrosion free
System	Integrated approach for system design extracting best performance from each part -	All the components are optimized for maximum energy efficiency with lowest sizing
	<ul style="list-style-type: none"> • Top quality optics • Optimum thermal management and heat sink design • Microprocessor based charge controller and led driver maximizes the performance of panel & battery • Hybrid version optional for AC backup 	

Benefits

- No line voltage, trenching, or metering
- No power outages
- Battery backup for cloudy or rainy days
- Independent power and light source- no two systems are connected, hence no single point of failure.
- Easy to install
- No maintenance except for the battery
- 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, solar panels reduce fossil fuel consumption, eliminating pollution
- IP 65 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.



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 Lighting
- Military Base Lighting
- Jogging Path Lighting

Options available



System constituents with integrated MPPT Charge controller and LED driver

Model No.	System W	100%(3 Days Autonomy)			Dimming 40% 6hrs full on, 6 hrs 60% on wattage)		HYB(2 Days Autonomy)		DIMMING(40% dimming) + HYB(2 days autonomy)		Pole Oct
		System Lumen	Wp	AH	WP	AH	WP	AH	WP	AH	
BRP 202* (Selina)	8	725	40	40	NA	NA	NA	NA	NA	NA	4
BRP 202** (Selina)	15	1150	80	75	NA	NA	NA	NA	NA	NA	NA
BRP 402 (Minigreen)	21	1800	100	100	75	75	100	75	75	75	5,6
BRP 402 (Minigreen)	28	2300	NA	NA	120	100	100	100	100	75	5,6
BRP 403 (Greenline)	43	3500	100x2	100x2	80x2	80x2	200	80x2	80x2	60x2	7

*BRP202 meets 8W MNRE requirements
 **BRP202 15W RD50 approved

System constituents with integrated PWM Charger and Driver

Model No.	System Wattage	System Lumens	(3 Days autonomy)		Pole
			WP	AH	
BRP 020 (Greenline Smart)	12	970	60	60	4
BRP 020 (Greenline Smart)	15	1200	75	75	5
BRP 020 (Greenline Smart)	20	1350	100	100	5

Ordering data on request

Hindustan Unilever Ltd

Khamgaon, Maharashtra, India

“

I must say that Philips
Solar LED lighting done
at our plant, is **one of the
best choices** we have
made”

Akhilesh Yadav
Factory Manager, Khamgaon Plant, Hindustan Unilever Ltd



Solar LED
Street Light
BRP403



Municipal Council

Shahabad, Hardoi, Uttar Pradesh

“

Before trying Philips, we tried various competition products. Philips not only provided us a great product, but also trained our local electricians. **We are very happy**”

Asif Khan
Chairman, Shahabad Nagar Palika Parishad



Solar LED
Street Light
BRP020



South

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