



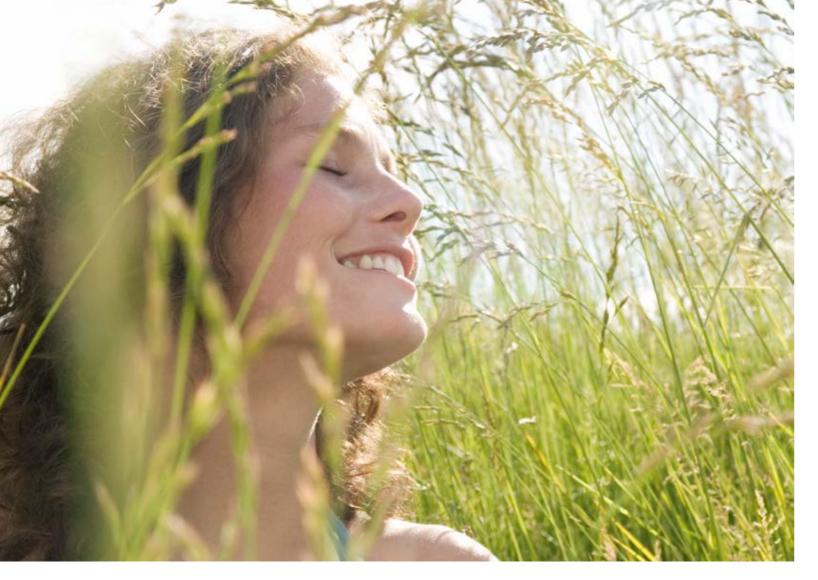
### Public Lighting

Solar street lighting brochure 2014

# )la street lighting ILIBRIT



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.



### **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.

## **Philips LED Added solution benefits**

	Philips Solution	Advantage		
Luminaire	Aluminium housing	Strong and safe Excellent heat o		
	LEDs for light source	High brightness new age LEDs		
	Optics	Optical enginee		
	High efficiency driver & MPPT charge controller	Low power cons		
Solar panel	Polycrystalline solar cells	Mature technolo Improving Efficie More Rugged Ease of availabi		
Battery	Tubular construction	Low discharge r Ideal for Tropica Long Life		
	75% Depth of Discharge	Long Life		
	Polymer/Galvanised battery box	Weather-proof		
	3 days autonomy	Long back-up lo		
Pole	Galvanised pole	Rigid and safe Corrosion free		
	Integrated approach for system design	All the compone		
System	extracting best performance from each part -	efficiency with l		
	<ul> <li>Top quality optics</li> </ul>			
	<ul> <li>Optimum thermal management and heat sink design</li> </ul>			
	<ul> <li>Microprocessor based charge controller and led driver maximizes</li> </ul>			
	<ul><li>the performance of panel &amp; battery</li><li>Hybrid version optional for AC</li></ul>			

 Hybrid version optional for AC backup



dissipation IP65 protection s and high efficacy of more than 100lm/W

eering for uniform light distribution nsumption meets IEC standards

ology ciency

bility e rate cal conditions Low Maintenance

Ideal for cloudy conditions

nents are optimized for maximum energy I lowest sizing

## **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

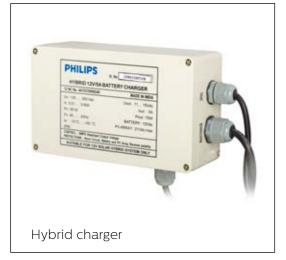
Campus Lighting

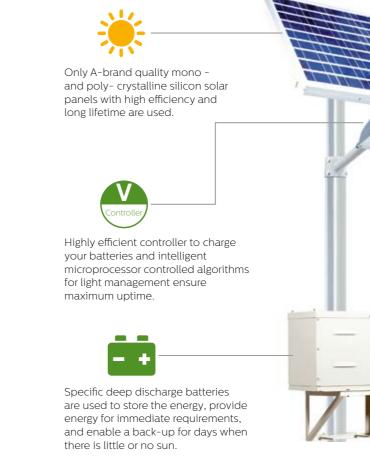
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- Ship Dock Lighting
- Remote Area Lighting
- Military Base Lighting
- Jogging Path Lighting

### **Options available**







#### System constituents with integrated MPPT Charge controller and LED driver

	100%(3 Days Autonomy)		Dimming 40% 6hrs full on, 6 hrs 60% on wattage)		HYB( 2 Days Autonomy)		DIMMING(40% dimming) + HYB (2 days		Pole Oct	
	System Lumen	Wp	АН	WP	АН	WP	АН	WP	АН	
8	725	40	40	NA	NA	NA	NA	NA	NA	4
15	1150	80	75	NA	NA	NA	NA	NA	NA	NA
21	1800	100	100	75	75	100	75	75	75	5,6
28	2300	NA	NA	120	100	100	100	100	75	5,6
43	3500	100x2	100x2	80x2	80x2	200	80x2	80x2	60x2	7
1	5 21 28 43	Lumen           3         725           5         1150           21         1800           28         2300	Lumen           3         725         40           5         1150         80           21         1800         100           28         2300         NA           43         3500         100x2	Lumen37254040511508075211800100100282300NANA433500100x2100x2	System Lumen         Wp         AH         WP           3         725         40         40         NA           5         1150         80         75         NA           21         1800         100         100         75           28         2300         NA         120           43         3500         100x2         100x2         80x2	System Lumen         Wp         AH         WP         AH           3         725         40         40         NA         NA           5         1150         80         75         NA         NA           21         1800         100         100         75         75           28         2300         NA         NA         100           43         3500         100x2         100x2         80x2	System Lumen         Wp         AH         WP         AH         WP           3         725         40         40         NA         NA         NA           5         1150         80         75         NA         NA         NA           21         1800         100         100         75         75         100           28         2300         NA         NA         120         100         100           43         3500         100x2         100x2         80x2         80x2         200	System         Wp         AH         WP         AH         WP         AH           3         725         40         40         NA         NA         NA         NA           5         1150         80         75         NA         NA         NA         NA           21         1800         100         75         75         100         75           28         2300         NA         NA         100         100         100           43         3500         100x2         80x2         80x2         200         80x2	System         Wp         AH         Wp         AH         Wp         AH         Wp         AH $\frac{autonomy}{Wp}$ 3         725         40         40         NA         NA </td <td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td>	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

\*\*BRP202 15W RD50 approved

### System constituents with integrated PWM Charger and Driver

Model No.	System Wattage	System Lumens	(3 Days aut WP	onomy) AH	Pole
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

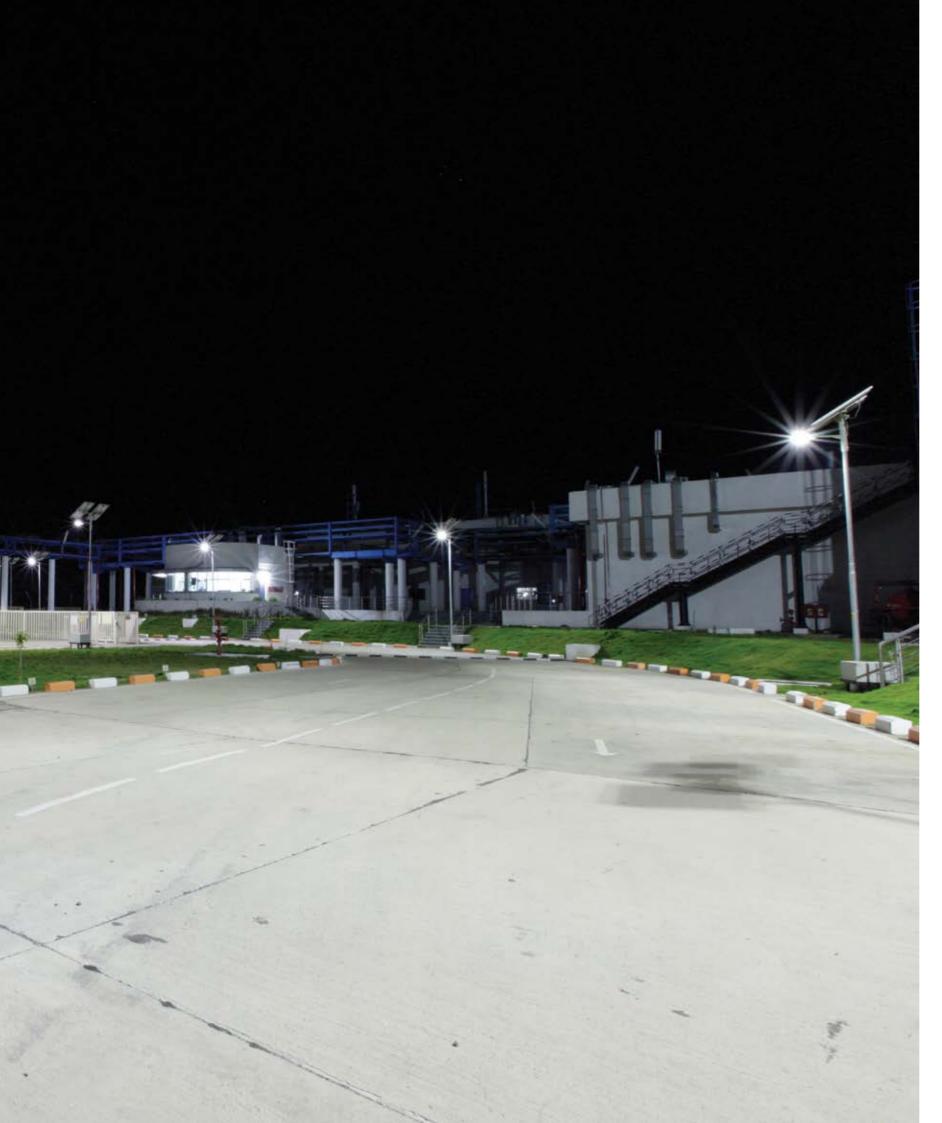


High Lumen LED modules for maximum efficacy. Dedicated designed low-voltage solar controller technology with dimming capabilities for power-save management. Lifetime > 50,000 hrs and CRI nominal 70.





Microprocessor managed algorithms autonomously determine sunrise and sunset.



# Hindustan **Unilever Ltd** Khamgaon, Maharashtra, India

66 I must say that Philips Solar LED lighting done best choices we have made"

Akhilesh Yadav Factory Manager, Khamgaon Plant, Hindustan Unilever Ltd





# at our plant, is **one of the**



# Municipal Council Shahabad, Hardoi, Uttar Pradesh

Shahabau, Haluul, Ullal Plaue

# 66

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





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