



SOLAR LED STREET LIGHTING **BADR G2 Range** Corrosion Resistant Fibreglass filled body

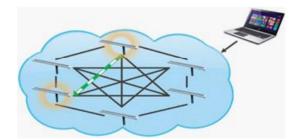
designed for coastal areas

Multiple Benefits of Silicon CPV Solar **Powered Street Lights:**

- Looks like a normal street light with a specially designed light envelope.
- Uses free electricity from the sun so environmentally-friendly and pollution-free
- Lightweight less than 19kg
- Easy to install and safe to use
- Computer-controlled EMS
- No costly or complicated pipe-laying or underground wiring required
- No cabling required
- One unit so no separate battery
- Solar panel 25 year service life
- Special chemistry lithium ion battery designed for 5 year service life in elevated temperatures
- Remote wireless connectivity
- No costly maintenance required
- Stylish and integrated design
- Suitable for 7 to 10 meter height poles
- Robust and weather-tolerant
- Traffic accidents and pedestrian injuries decline as visibility increases



GSM or Internet based Remote Management



Our vision is simple – to develop and The economic advantage of solar lighting from the sun's energy.

are the most economic, reliable and versatile means of providing street lighting.

With a high efficiency long-life light sunlight during the daytime into electricsource of over 60,000 hours, the selfcontained units are not only lightweight sunset, the solar panel will detect a drop (less than 19kg per unit) but require no in ambient light and the system will autospecial tools or heavy lifting equipment matically turn on the light. The LED light to install. In fact they literally take just five source complete with integrated lens minutes to install!

manufacture advanced Solar LED Street is very clear - deploying a solar light re-Lighting systems that will greatly reduce quires no timely and often costly overhead the cost of generating clean electricity or underground electrical wiring. Further, not having to provide additional electricity from the grid for lighting avoids the incred-Silicon CPV's solar powered street lights ible expense of power plants and electrical distribution equipment.

> The self-contained unit simply converts ity and stores it into the battery. After ensures that all light produced is directed along the road exactly where required

Silicon CPV



Silicon CPVs Solar street light solution offers Many advantages:

Corrosion Resistant Rugged Fibreglass filed case designed for Coastal Areas

• Solar lighting can save the owners large amounts of money by eliminating trenching, wiring and electricity costs and also ensures that there are few or no landscaping issues.

• Compared to traditional grid-tied lighting, the solar LED lights do not require timers and their LED fixtures eliminate regular maintenance visits. In more remote places, solar lights are also a way to help prevent theft.

• Solar lights are good for the environment. Using only the limitless clean energy from the sun, they have the benefit of using less material and labour to install, further reducing the carbon footprint



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Specifications	Badr 1L+G2	Badr1+ G2	Badr2+ G2	
Maximum Light Output Phase 1 (Lumens)	7,800	6,500	5,200	
Battery - Type	68,760	51,516	41,148	
Capacity (Ah)	Lithium			
Battery - Service Life	382	318	254	
Light Source - Type	5 Years at 80% DoD and at 45°C ambient			
Number of LEDs	High Efficiency LED, 5000K Colour Temperature			
LED Power (Maximum)	96W	64W	64W	
Light Head Lifetime	20 Years to LM80 specification			
LED Efficiency	>93%			
Optical Efficiency	Fibreglass filled Injection Molded ABS+PC UV Resistant			
Main Body	90	70	60	
Solar Panel (W)	1445 by 272			
Solar Cells	Very High Efficiency – Proprietary Solar Cells			
Solar Panel - Service Life	25 Years			
Controller	Microprocessor based Energy Management and Wireless Communications			
Wireless Network	Proprietary Wireless Network allows Remote Management and Control of Lights using Internet or GSM. One gateway per 200 lights, all the gateways report to a central control room.			
Light Control	Intelligent Adaptive Light level control based on energy received or a predefined light level option is user selectable.			
Light Hours	Programmable trigger levels from "Dusk to Dawn"			
Optics	8 different light profiles available for each light			
Recommended Pole Height	9 - 10 meters	8 - 9 meters	7 - 8 meters	
Pole Spacing	5 times Pole height for T2 Optics (IENSA Type II)			
Light Envelope (m ²) for T2 optics	400 (10m Pole)	360 (9m Pole)	320 (8m Pole)	
Average Light level	20 Lux			
Maximum Light Level	35 Lux			
Minimum Light Level	10 Lux			
Dimensions (L x W x H) cm (excluding pole)	180 x 23 x 7 (Dimensions exclude pole adaptor)			
Weight (Kg)	18kg	16kg	14kg	
Operating Temperature	-20°C TO +60°c			
Protection Rating	IP68			
Standards Compliance	9:2003 EN13201, ME4a, IESNA Type II	or Type III		

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