

# Outdoor Battery Back-Up Solution

 Up to  
IP 66


## MAIN APPLICATIONS


 URBAN  
RESIDENTIAL  
STREETS

 CAR  
PARKS

 SECURITY  
LIGHTING

 SQUARES &  
PEDESTRIAN  
AREAS

 BIKE &  
PEDESTRIAN  
PATHS

## Integrated battery back- up lighting solution

### KEY ADVANTAGES

- > Designed and manufactured in South Africa
- > Designed to operate reliably at full light output over a four-hour period
- > Integrated AC charger with maximum charging time of four hours
- > Integrated daylight switch to prevent daytime burning
- > Cylindrical housing for integrated energy storage solution
- > Long life lithium (LiFePO4) energy storage technology, offering up to 8 years battery lifetime
- > Theft and vandal resistant
- > Circular economy 3-star rating
- > Warranty up to 5 years

### The integrated battery back-up lighting solution for road and urban applications

The Outdoor Battery Back-Up Solution offers an integrated aesthetic option with an appealing design, while ensuring your lighting needs are met during power outages in outdoor residential and public environments.

When combined with compatible grid-tied luminaires (streetlights or post top options), this solution ensures the continuity of reliable lighting.

To effectively distribute light, our superb range of lenses is utilised, along with a high level of protection against environmental factors (up to IP 66) and resistance to vandalism (up to IK 10).

The pole sleeve incorporates the LiFePO4 battery and intelligent charger.

This solution can be easily installed on an existing standard Ø76mm streetlighting pole.

## Energy storage




### Lithium-ion




Lithium-ion based battery packs have the added advantage that they have a higher power density than lead, which means they have more available power for the same mass of a lead battery. This advantage, combined with the longer life expectancy and higher rate of depth of discharge (DOD), offering an attractive option for solar lighting applications, resulting in a longer lifetime. All Lithium-ion energy storage packs have an integrated Battery Management System (BMS) which monitors the health, charging and discharging of the energy storage pack. This safeguards the cells so that they are not over charged or discharged, maximising their lifetime.


Battery pack operating temperature: -20°C to +60°C

**Please note:** Permanent live required for installation.

# Performance

			Nominal flux (lm) <sup>(*)</sup>	Power consumption (W)	Nominal efficacy (lm/W)	Luminaire output flux (lm)	Luminaire efficacy (lm/W)	Photometry <sup>(**)</sup>
Luminaire	Number of LEDs	Driver Current (mA)	Typical	Typical	Typical	Typical	Typical	
LEDLUME 1	24	750	6423	36	178	5460	152	
LEDLUME 2	48	490	8651	46	188	7353	160	

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Luminaire	Number of LEDs	Driver Current (mA)	Typical	Typical	Typical	Typical	Typical	
ZIYA-E	24	590	5173	28	185	4397	157	
ZIYA-1	24	750	6423	36	178	5460	152	
	48	490	8651	46	188	7353	160	


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Luminaire	Number of LEDs	Driver Current (mA)	Typical	Typical	Typical	Typical	Typical	
KAZELLE	120	570	5132	26	197	4054	156	2900 4010

Tolerance on LED flux is  $\pm 7\%$  and on total luminaire power  $\pm 5\%$

<sup>(\*)</sup> The nominal flux is an indicative LED flux @ Ts 85°C based on LED manufacturer's data. The real flux output of the luminaire depends on environmental conditions (e.g. temperature and pollution) and the optical efficiency of luminaire. The type of LED used is subject to change due to the ongoing rapid progress taking place in LED technology.

<sup>(\*\*)</sup> Custom combinations of lenses/optics to suit the project are available on request.



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Luminaire	Number of LEDs	Driver Current (mA)	Typical	Typical	Typical	Typical	Typical	
VERTICE-S	40	530	4380	26	168	3416	131	
VERTICE-R	84	620	4299	26	165	3353	129	4010

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Designed and manufactured by BEKA Schröder (Pty) Ltd



**LOCALLY**  
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