BEYOND BATTERIES STREETLIGHT MODULE TECHNICAL DATA SHEET 1KWH-12V VERSION 1.0 | REVISION 0 | RELEASE DATE: 7th May 24

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ELL-1k-12-0.5C-X-X-X-X-1VO-GEN1

STREETLIGHT MODULE

EFFICIENT

- Highly Efficient: > 95% RTE (Round Trip Efficiency)
- 100% DOD (Depth of Discharge)
- 500,000 Cell Life Cycles

SAFE & RELIABLE

- Wide Operating Temperature Range
- Deployable in Various Environments including High Altitudes
- No Thermal Runaway Risk

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PERFORMANCE SPECIFICATIONS

DC Energy	1kWh	
Voltage Range	10.8Vdc to 15Vdc	
DC Voltage (Nominal)	12Vdc	
Internal Resistance	< 4 mili Ohms	
CELL SPECIFICATIONS		
Technology	Encapsulated Cell	黝
Nominal Cell Voltage	6.4 ~6.6Vdc / Cell (Encapsulated) 1/2 + 0.12V Envelope	E NULIGHT
CHARGE CHARACTERISTICS		X # & \ 1
Maximum Continuous Charge Current	40A (~0.5C)	
Charging Method	CC/CP/VP	
DISCHARGE SPECIFICATIONS		
Maximum Continuous Discharge Current	40A (~0.5C)	
Discharging Method	CC/CP/VP	
MODULE ENVIRONMENTAL SPE	CIFICATIONS	
Operating Temperature Range	-30°C~ +70°C	ENLIGHT MODULE
Operating Humidity	Non-Condensing	

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MECHANICAL SPECIFICATIO	DNS .
Dimensions ¹ (W x H x D) mm	178 x 78 x 863
Weight (kg)	15
Module Casing Material	GI Powdered
Terminal Type	160A Terminal Post
SMART FEATURES (WITH E	NCONTROL ²)
Alarm ²	Warning alarm in the event of Over/under-Voltage,
	Over-Current, Over Temperature
OLED Display ²	Monitoring Total Voltage, Individual Cell Voltages, Current,
	Temperatures, SOC and Energy Consumed
Communication ²	WIFI / Bluetooth
SAFETY PERFORMANCE	
Short Circuit Protection	Electronic Switching, Terminal Cut-off
Over/under Voltage	Electronic Switching, Terminal Cut-off
Over Current	Electronic Switching, Terminal Cut-off
Over Temperature	Electronic Switching, Terminal Cut-off

ISOMETRIC VIEW

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SERVICE LIFE Cells Projected Cycle Life³ 500,000 cycles Cells Projected Calendar Life⁴ 25 years Module Projected Shelf Life⁵ 10 years Can be stored at any SOC without affecting cycle life Warehousing PRECAUTIONS In case of alarm, immediately rectify/attend to the cause of the alarm. Alarm² In case the Module is physically damaged due to any event, do not install Physical Damage and energize the Module under any circumstances and contact your Reseller or After Sales Support. Short Circuit Ensure precautions to prevent short-circuit under all circumstances. When connecting to external devices ensure that galvanic isolation of the Galvanic Isolation external device(s) does not exceed 1000V. All Modules must be at 100% SOC before connecting in parallel. Parallel Connection There is no limit on the number of Modules that can be connected in parallel. Modules cannot be connected in series-parallel combination under any Series-Parallel Connection circumstance.

NOTES

¹Product Dimensions are for reference only and may change without notice.

²The ENCONTROL tool is an OLED display designed for Module monitoring. Please note SMART FEATURES are not part of the standard Streetlight Module and require separate purchase of **ENCONTROL** tool.

³ Projected Life of encapsulated cells.

⁴ Projected Calendar Life of encapsulated cells from the date of first operation.

⁵Shelf Life is the Life of the Module (in years) from the date it is manufactured to the time it is first operated.

Additional terms and conditions, including a limited warranty,

will apply at the time of purchase.

For critical applications, please contact your Reseller or After Sales Support.