

ENL-1k-12-0.25C-X-X-X-X-1V0-GEN1 VERSION 1.0 | REVISION 0 | RELEASE DATE: 3rd APRIL 24

STREETLIGHT MODULE

1KWH-12V





EFFICIENT

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



SAFE & RELIABLE

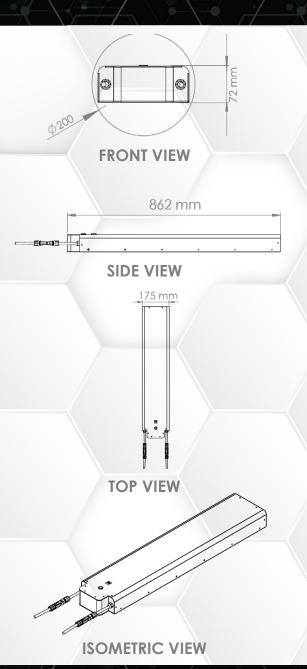
- Wide Operating Temperature Range
- Deployable in Various Environments including High Altitudes
- No Thermal Runaway Risk

PERFORMANCE SPECIFICATIONS	i e e e e e e e e e e e e e e e e e e e
DC Energy	1kWh
Voltage Range	10.8Vdc to 15Vdc
DC Voltage (Nominal)	12Vdc
Internal Resistance	< 4 mili Ohms
CELL SPECIFICATIONS	
Technology	Encapsulated Cell
Nominal Cell Voltage	6.4 ~6.6Vdc / Cell (Encapsulated) 1/2 + 0.12V Envelope
CHARGE CHARACTERISTICS	
Maximum Continuous Charge Current	20A (~0.25C)
Charging Method	CC/CP/VP
DISCHARGE SPECIFICATIONS	
Maximum Continuous Discharge Current	20A (~0.25C)
Discharging Method	CC/CP/VP
MODULE ENVIRONMENTAL SPE	CIFICATIONS
Operating Temperature Range	-30°C~ +70°C
Operating Humidity	Non-Condensing



ENLIGHT MODULE

MECHANICAL SPECIFICATIO	ON S
Dimensions ¹ (W x H x D) mm	175 x 72 x 862
Weight (kg)	15
Module Casing Material	GI Powdered
Terminal Type	MC4 Connectors
SMART FEATURES (WITH EN	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



SERVICE LIFE		
Cells Projected Cycle Life ³		500,000 cycles
Cells Projected Calendar Life ⁴		25 years
Module Projected Shelf Life ⁵		10 years
Warehousing		Can be stored at any SOC without affecting cycle life
PRECAUTIONS		
Alarm ²	In case of alarm, immediately rectify/attend to the cause of the alarm.	
Physical Damage	In case the Module is physically damaged due to any event, do not install 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.	
Galvanic Isolation	When connecting to external devices ensure that galvanic isolation of the external device(s) does not exceed 1000V.	
Parallel Connection	All Modules must be at 100% SOC before connecting in parallel. There is no limit on the number of Modules that can be connected in parallel.	
Series-Parallel Connection	Modules cannot be connected in series-parallel combination under any 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.