AC2DC Storage

Authorized Channel Partner of EMTEL Energy USA

EMTEL ENERGY

ENCAP

BEYOND BATTERIES

TECHNICAL DATA SHEET

9KWH-110V Module

EN-9k-110-1C-X-X-X-X-1V0-GEN1

SMART MANAGEMENT

- Feature-rich online monitoring via App or OLED display
- Automatic Firmware Updates
- Warning Alarms

EFFICIENT

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

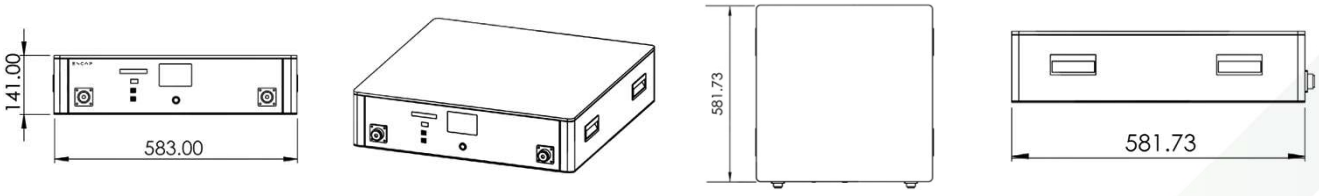
SAFE & RELIABLE

- Wider operating ambient temperature range
- Suitable for various installation environments including high altitudes
- No thermal runaway risk

TECHNICAL DATA SHEET

EMTEL ENERGY

Performance Specifications	
Useable Energy Capacity	9kWh
Voltage Range	87Vdc to 118Vdc
DC Voltage (Nominal)	110Vdc
Internal Resistance	<4 mΩ
Cell Specifications	
Technology	Encapsulated Cell
Nominal Cell Voltage	6.4 ~ 6.6Vdc / Cell (Encapsulated) 1/2 + 0.12V Envelope
Charge Characteristics	
Maximum Continuous Charging Current[1]	82A (~1C)
Charging Method	CC/CP/VP
Discharge Specifications	
Maximum Continuous Discharging Current	82A (~1C)
Discharging Method	CC/CP/VP
ENConnect Software	
Module Monitoring	Total Voltage, Individual Cell Voltages, Current, Temperature, SOC and Energy Consumed
Mechanical Specifications	
Dimensions[2] (W x H x D) mm	583 x 141 x 581.73
Weight (kg)	65
Module Casing Material	GI Powdered
Terminal Type	300A Terminal Post



Front View | Isometric View | Top View | Side View

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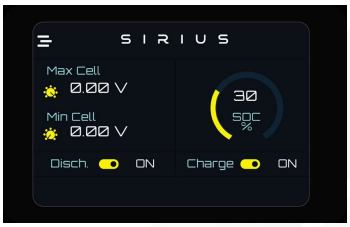
Smart Features	
OLED Display	Monitor Module
Communication	WIFI / CANBUS / Bluetooth
Alarm	Buzzer Alarm in the event of Over/Under-Voltage, Over-Current, Over-Temperature
Dry Contacts Output	Four programmable Dry Contacts
Dry Contacts Input	24Vdc three digital input with Isolated ground
Module Service Life	
Projected Cycle Life[3]	500,000 cycles
Projected Calendar Life[4]	25 years
Shelf Life[5]	10 years
Warehousing	Can be stored at any SOC without affecting cycle life
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
Module Specifications	
Operating Temperature Range[1]	-10°C~ +55°C (For continuous operation outside this range, please consult Resellers or Enercap)
Operating Humidity	Non-Condensing



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Precautions	
Alarm	In case of alarm, immediately rectify/attend to the cause of the alarm.
Physical Damage	In case the Module is physically damaged for 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 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:

[1]The temperature range indicates the range within which the Module can operate. The performance of the Module may vary if operated continuously outside the temperature range and/or at C-rates higher than the maximum charge/discharge rates specified in this data sheet. If the Module is to be operated continuously outside the temperature range and/or at C-rates higher than the maximum charge/discharge rates specified in this data sheet, please consult your Reseller or After Sales Support prior to deploying.

[2]Product Dimensions are for reference only and may change without notice.

[3] Projected life of encapsulated cells. Cycle life will vary if cycled more than 4 times a day.

[4] Projected Calendar life of encapsulated cells from the date of first operation.

[5]Shelf 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.