BEYOND BATTERIES

TECHNICAL DATA SHEET 9KWH-110V EN-9k-110-1C-X-X-X-X-1V0-GEN1

VERSION 1 | REVISION 0| RELEASE DATE: 29th Aug 23



SMART MANAGEMENT

- Feature-rich Online monitoring via App or OLED display
- Automatic Firmware updates
- Warning Alarms

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EFFICIENT

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



SAFE & RELIABLE

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



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PERFORMANCE SPECIFICATIONS

DC Energy	9kWh
Voltage Range	87Vdc to 118Vdc
DC Voltage (Nominal)	110Vdc
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 ¹	82A (~1C)
Charging Method	CC/CP/VP
DISCHARGE SPECIFICATIONS	
Maximum Continuous Discharge Current ¹	82A (~1C)
Discharging Method	CC/CP/VP
EN-CONNECT SOFTWARE	
Module Monitoring	Total Voltage, Individual Cell Voltages, Current,
	Temperatures, SOC and Energy Consumed
MODULE ENVIRONMENTAL SPE	CIFICATIONS
Operating Temperature Range ¹	-10°C~ +55°C (For continuous operation outside this range, please consult Resellers or Enercap)
Operating Humidity	Non-Condensing





LCD View

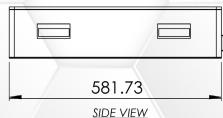
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Version 1.0, Release Date: 29th August 2023

TECHNICAL DATA SHEET

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MECHANICAL SPECIFICATIONS 141.00 Dimensions² (W x H x D) mm 583 x 141 x 581.73 . 0 0 Weight (kg) 65 583.00 Module Casing Material **GI** Powdered FRONT VIEW Terminal Type 300A Terminal Post SMART FEATURES **OLED** Display Monitor Module Ø 0 WIFI / CANBUS / Bluetooth Communication 6 Buzzer alarm in the event of Over/under-Voltage, Over-Alarm Current, Over Temperature **ISOMETRIC VIEW** Dry Contacts Output Four programmable dry contacts 24Vdc three digital input with isolated ground Dry Contacts Input 581.73 SAFETY PERFORMANCE Short Circuit Protection Electronic Switching, Terminal Cut-off Electronic Switching, Terminal Cut-off Over/under voltage TOP VIEW **Over Current** Electronic Switching, Terminal Cut-off Over temperature Electronic Switching, Terminal Cut-off



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MODULE SERVICE LIFE

Projected Cycle Life ³	500,000 cycles
Projected Calendar Lif	e ⁴ 25 years
Shelf Life⁵	10 years
Warehousing	Can be stored at any SOC without affecting cycle life
PRECAUTIONS	
Alarm	In case of alarm, immediately rectify/attend to the cause of the alarm.
	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.
Calvania kelation	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.
Series-Parallel	Modules cannot be connected in series-parallel combination under any
Connection	circumstance.

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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.	
1	- For critical applications, please contact your Reseller or After	

Sales Support.

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