



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

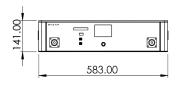
- Wider operating ambient temperature range
- Suitable for various installation environments including high altitudes
- No thermal runaway risk

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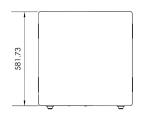
• TECHNICAL DATA SHEET

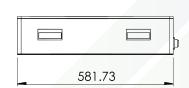


Performance Specifications		
Useable Energy Capacity	9kWh	
Voltage Range	87Vdc to 118Vdc	
DC Voltage (Nominal)	110Vdc	
Internal Resistance	<4 mΩ	
Cell Specifications		
Technology	Encapsulated Cell	
Nominal Cell Voltage	6.4 ~ 6.6Vdc / Cell (Encapsulated) 1/2 + 0.12V Envelope	
Charge Characteristics		
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	









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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 Life⁵	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	





TECHNICAL DATA SHEET



Precautions 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:

¹The 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.

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.

²Product 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.