

# EFIS-CAB-L232H Series 224 kWh Liquid Cooling Cabinet for Commercial and Industrial Energy Storage

QNIC001D800280



## Investment Savings

- Lithium iron phosphate batteries meet the requirements of IEC, UL, and GB standards.
- An advanced battery safety management system features multi-sampling point coverage and provides real-time data feedback for independent single-cluster batteries, ensuring no circulation and enhanced safety.



## Off-Grid Flexibility

- Seamless transition between on-grid and off-grid systems, ensuring backup energy for essential loads.
- This technology supports self-generation, self-consumption, and microgrid applications.



## Safe and Reliable

- DC coupling of photovoltaic storage connects to multiple systems.
- Strategies for Operating Photovoltaic Storage Systems for On-Demand Use.



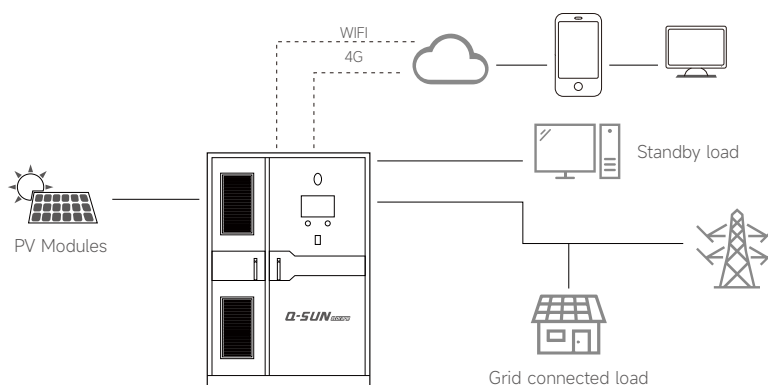
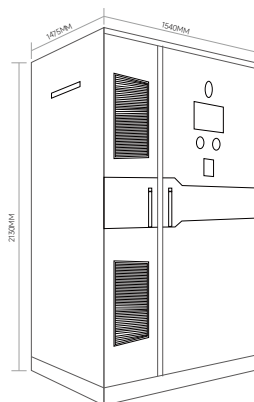
## Smart and friendly

- Embedded BMS integrated design, digital system, fast diagnosis.
- Can support linkage between local monitoring and cloud monitoring.

# PARAMETERS

ONE-STOP CARBON NEGATIVE PROVIDER  
OF ENERGY SOLUTIONS

Product model	QNIC001D800280
Nominal Capacity	224kWh
Cell Specifications	3.2V/280AH
Cell Assembly	1P40S*4+1P45S*2
Number Of Series-parallel Connections In a Single Cluster	1P250S (6 Packs)
Cell Type	LFP
Battery Voltage Range	700V-900V
Nominal Voltage	800V
Battery Cabinet Size (L*W*H)	1475*1540*2130mm
Battery Cabinet Weight	2500kg
Protection Degree	IP65
Short-circuit current	140A
Charge and discharge rate	0.5C
Matched PCS	100KW
Dischargeable Power	>210kwh
Battery Cycle Efficiency	≥90%@AC
Communication Interface	Ethernet/RS485/CAN
Communication Protocol	Modbus TCP/Modbus RTU/CAN 2.0
Output Voltage	380V@AC
Design Reference Standard	GB/T 36276-2018,UL1973,UL9540,UL9540A,UN38.3,IEC62619,IEC61000,NFPA69,NFPA70,NFPA855,IEC62620
Auxiliary Backup Power Supply	Online (0.5h power backup)
Operating Temperature Range	-30°C~55°C
Operating Humidity Range	<95% (no condensation)
Altitude	<2000m (2000m~4000m Run at a Reduced Rate)
Liquid Cooling Unit	8kw
Thermal Management	Liquid cooling+heating
Color	RAL9003
Vibrations	Zone 4
Noise	≤ 75 dB @1m
Fire Protection	Perfluorohexane+Pack level integrated automatic fire extinguishing system+ manual fire extinguishing system with fire water inlet, combustible gas, temperature, and smoke detection system
Emergency Stop in Situ	Equipped
Remote Emergency Stop	Equipped



# PowerNet 300 Series 215/430Kwh Outdoor Distributed Battery Cabinet

QN2023001/QN2023002



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## Environmental Adaptation

- The machine is IP54 rated and features an internal forced air-cooling system with independent thermal management for diverse scenarios.



## Safe and Reliable

- The PACK system features shell thermal insulation with a triple fire protection design, independent relay protection, core-level thermal monitoring, and physical isolation of single points of failure, significantly enhancing system safety.



## Multi-Computer Parallel Link

- PowerNET outdoor control inverter cabinets enable modular expansion of distributed energy storage systems, meeting deployment needs for large-scale applications.



## Highly Integrated

- The single cabinet integrates the battery pack, battery management system, thermal management system, and fire protection system into one highly integrated unit.



## Flexible Deployment

- A pre-assembled cabinet requires less than 2 square meters and can be flexibly deployed in various locations, including parks, commercial buildings, and factories.

Specifications

PowerOn D1 Specifications

Product model	PowerNet 300	
Inverter Cabinet	PowerNet 300	PowerNet 300
Number Of Battery Cabinets	1	2
Rated Energy (kWh)	215	430
Rated Power (kw)	100	200
System Efficiency	<90%	<90%
Size (W/D/H, mm)	1700X1250X2000 (Single Cabinet)	
Weight (kg)	≤ 2600 (Single Cabinet)	
Communication and grid connection parameter		
Grid-connected Wiring System	3W+N+PE	
Grid-connected Voltage (VAC)	380(-15%~+10%)	
Grid-connected Frequency (Hz)	50 (± 2)/60 (± 2)	
Power Factor	-0.9~+0.9	
Output Harmonics	≤ 3% (Rated Power)	
Communication and grid connection parameter		
Charge/Discharge Conversion Time (ms)	≤100	
Voltage Accuracy	1%	
Frequency Accuracy (HZ)	± 0.2HZ	
Output Voltage Harmonics	≤ 3% linear loads	
Dynamic Response (ms)	Twenty	
Unbalanced Load Capacity	100%	
Overload Capacity	≤ 105%, Capable Of Long-term Operation	
	105%-110%, Running Time ≤ 10 minutes	
	>110%, Stop Running	
Cycle Life (cycles)	≥6000	
Protection Degree	IP54	
Installation	Outdoor, Floor Mounted Installation	
Cooling Method	Air Conditioner	
Noise(dB)	≤70	
Anti-corrosion Class	C4	
Life Span	≥ 10 Years	
Certification	IEC62619,UN38.3,CE,GB/36276	

## EFIS-CAB-L380H Series

# 2967.5Kwh Liquid Cooling Prefabricated Battery Cabinet

QN2023001/QN2023002



► PUBLIC UTILITY SOLUTIONS



### Investment Savings

- LFP battery cell meet the requirements of IEC, UL, and GB standards.
- An advanced battery safety management system features multi-sampling point coverage and provides real-time data feedback for independent single-cluster batteries, ensuring no circulation and enhanced safety.



### Off-Grid Flexibility

- Seamless transition between on-grid and off-grid systems, ensuring backup energy for essential loads.
- This technology supports self-generation, self-consumption, and microgrid applications.



### Safe and Reliable

- DC coupling of photovoltaic storage connects to multiple systems.
- Strategies for Operating Photovoltaic Storage Systems for On-Demand Use.



### Smart and friendly

- Embedded BMS integrated design, digital system, fast diagnosis.
- Can support linkage between local monitoring and cloud monitoring.

Specifications

EFIS-CAB-L380H Series

Product model	QN2023001		QN2023002	
Cell System	LFP			
Number of Series and Parallel Connections in a Single Package	1P69S			
Number of Series and Parallel Connections in a Single Cluster	1P414S (6 Packs)			
Number of Cell Clusters (Parallel)	8			
Nominal Voltage	1324.8V			
Voltage Range	1159.2V~1490.4V			
Rated Power	1375kW		700kW	
Rated Capacity	2967.5 kwh		2967.5 kWh	
Short Circuit Current	75kA		70kA	
Charge/Discharge Ratio	0.5C		0.25C	
Container Type	20HC			
Communication Interface	Ethernet/RS485 /CAN			
Communication Protocols	Modbus TCP/Modbus RTU/CAN 2.0			
Auxiliary Power	AC380V/50Hz,3P5W			
Design Reference Standards	GB/T 362 76-2018,UL1973,UL9540,UL9540A,UN38.3,IEC62619,IEC61000,NFPA69,NFPA70, NFPA855, IEC62620			
Auxiliary Backup Power	On-line (0.5h power backup)			
Operating Environment Temperature	-30°C to 55°C			
Altitude	<2000m(2000m~4000m Run at a Reduced Rate)			
Thermal Management	Liquid Cooling + Air Conditioner			
Dimensions (L*W*H)	6058*2438*2896 mm			
Weight	30,000 kg			
Protection Degree	IP55			
Color	RAL9003			
Vibrations	Zone 4			
Noise	≤75 dB @1m			
Fire Protection	Heptafluoropropane gas (or perfluorohexanone) fire extinguishing system Combustible gas detection system			
Emergency Stop in Situ	Equipped			
Remote Emergency Stop	Equipped			

