



Battery Supplies AQ-LITH EnergyRack 46 kWh floor standing battery

AQ-LITH EnergyRack 46 kWh technical parameters

Description	Parameter	Notes
Battery cell type	LiFePO4	Lithium iron phosphate
Charge/discharge cycles	>6000	When charging at 0.5 C and 80% DoD. Energy capacity reduced to 60%.
Design life	10 Years	Energy capacity reduced to 80%
Nominal capacity	46 kWh	DC side
Available capacity	≥46 kWh	Standard charge/discharge conditions
Max. continuous discharge power	22.5 kW	
Nominal output voltage	51.2 VDC	
Standard charging voltage	57.6 V	
Standard charging current	180 A	
Max. continuous charging current	450 A	
Standard discharge current	300 A	
Max. continuous discharge current	450 A	
Discharging cut-off voltage	43.2 V	
Compatible inverter	Victron/Goodwe/Growatt/Solis	Building Services recommends Victron
Communication ports	CAN, RS485	
Operating temperature range	-10°C to 55°C	
Storage temperature range	-20°C to 45°C	
Operating humidity	Up to 95%	No condensation
IP rating	IP55	Salt fog proof
Altitude	≤2000 m	
Dimensions	900*900*2100 mm	W*D*H
Weight	~700 kg	
Air conditioning power	1000 W	220VAC, L+N, Cooling and heating
Shipping package	Wooden crate	

Note: Each AQ-LITH EnergyRack 46 kWh floor standing battery comprises 9 battery modules and a main control box, housed in an outdoor cabinet with built-in AC



Battery Supplies AQ-LITH EnergyRack module

Battery module technical parameters	
Description	Parameter
Battery cell type	LiFePO4
Cell connection mode	16S1P
Charge/discharge cycles	>6000
Nominal capacity	105 Ah
Available capacity	≥100 Ah
Operational voltage range	43.2-57.6 VDC
Max. continuous charging current	50 A (0.5 C)
Max. continuous discharge current	50 A (0.5 C)
Standard discharge method	CC to CV
Internal resistance	≤200 mΩ
Dimensions (W*D*H)	440*460*132 mm
Weight	~48 kg
Connectors	P+: TTC x2, P-: TTC x2
Communication ports	RS232 x2, Link x2, RS485, CAN

Battery module BMS technical parameters		
Item	Description	Parameter
Self-consumption	Low-power mode	≤100 μA
Over charge protection	Detection voltage	3.75 V
	Release voltage	3.4 V
Over discharge protection	Detection voltage	2.6 V
	Release voltage	3.0 V
Over current protection	Detection current	120 A
Temperature protection	Detection temperature	65°C±5°C
Balance	Opening voltage	3.4 V



Battery Supplies AQ-LITH EnergyRack Main control box and AC unit

AQ-LITH EnergyRack Main control box

Description	Parameter	Quantity	Note
P+ connectors	TTC	5	Nominal current 200 A
P- connectors	TTC	5	Nominal current 200 A
Micro circuit breaker	250 A	5	
Main circuit breaker	400 A	3	Isolate battery & inverters
Copper busbar	1000 A	2	

AQ-LITH EnergyRack Air Conditioning

Description	Parameter
Rated cooling capacity	1000 W
Rated heating capacity	1000 W
Rated AC input voltage	220±15% VAC
Rated AC frequency	50 Hz
Rated AC input power	320 W
Installation method	Wall mounted
Noise level	≤60 dB
IP level	IP55
Refrigerant	R134a

Manufacturer information:



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