

Efficient.
Reliable.
Cool.



A-KOOL

AIR COOLED ENERGY STORAGE SYSTEM

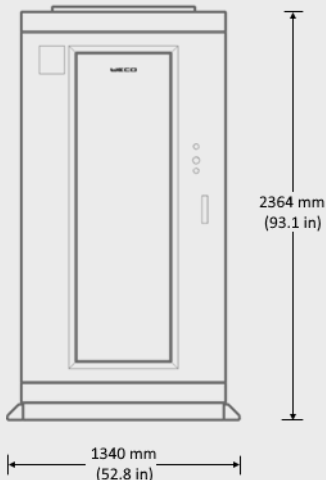
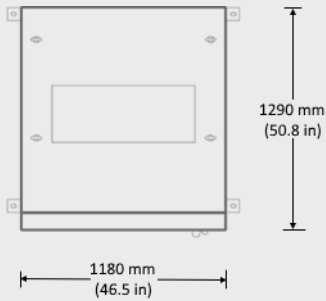
Future-proof your home with cutting-edge technology for long-term energy security
The Next Generation Of Air-Cooled Lithium Battery Cabinets

A-KOOL 115

1C ENERGY STORAGE SYSTEM

Specifications

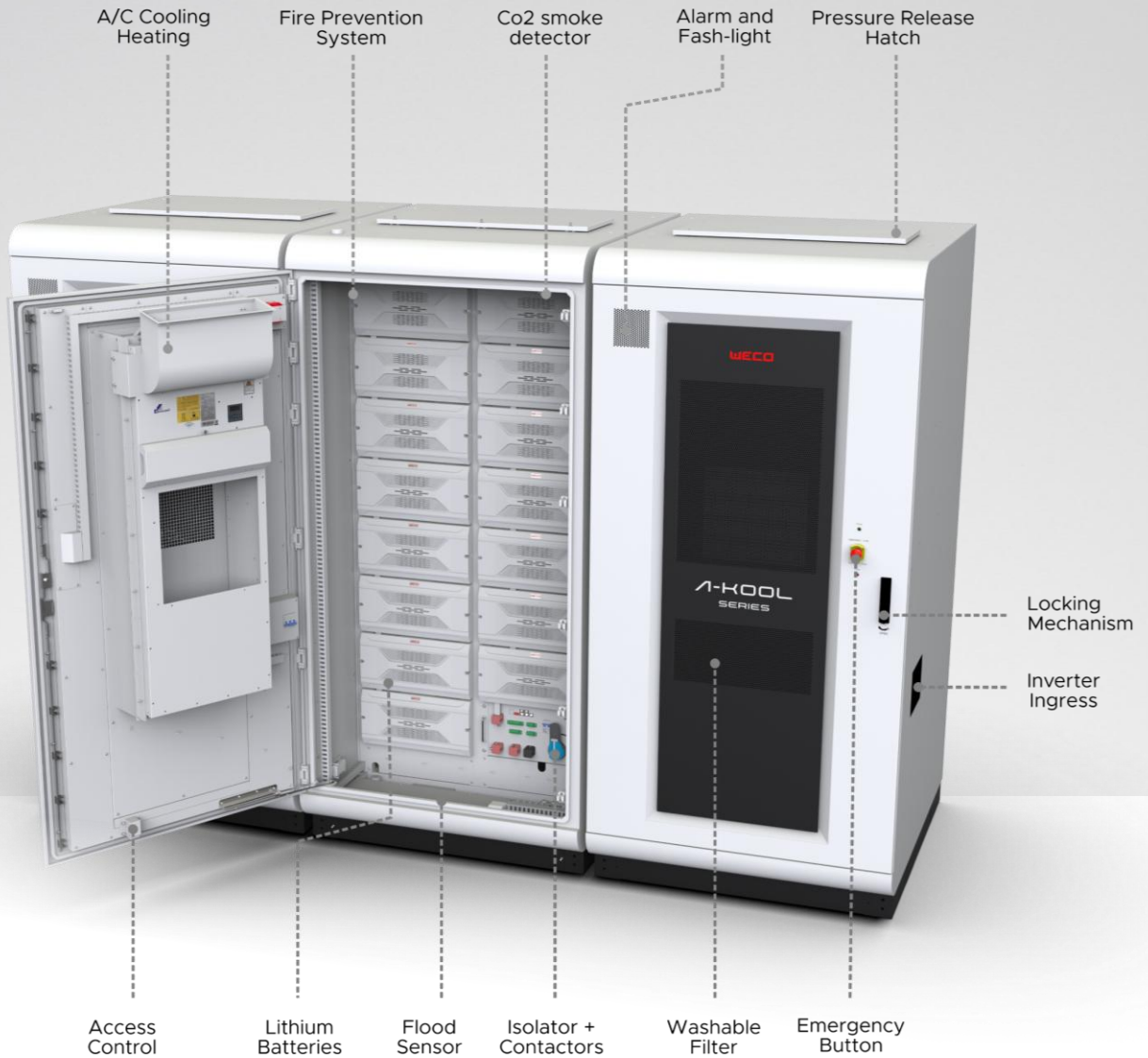
BATTERY	Battery Type	7K6 Lithium Iron Phosphate
	Cell Specifications	3.2 V, 150 Ah
	Group Approach	16S
	Battery Capacity	7.68 kWh
SYSTEM	Max. DoD	90%
	Rated Capacity	115 kWh
	Cabinet Max. Slots (Standard)	15 + 1 HVBOX
	Rated Voltage	768 Vdc
	Voltage Range	680 ~ 864 Vdc
	Max. Discharge/Charge Current 1C	1C (150 A)
	Recommended Discharge/Charge Current (Long Cycles)	0.5C (75 A)
	System Short Circuit Current	7000 A
	Battery Short Circuit System	6800 A
	HV BOX Fuses Protection	1000 V – 200 A On Both Poles
	HV BOX Manual Breaker	1500 V – 200 A Type C Automatic Thermal Protection
CYCLES	HV BOX Contactor Rating Current	350 A On Both Poles
	Cabinet Max. Elevation	3000 m
	Number Of Cycles 0.5C	≥ 7000 (0.5C, 90% DOD ,70% SOH)
	Number Of Cycles 1C	≥ 4700 (1C, 90% DOD, 70% SOH)
COMMUNICATION	Battery To Inverter Communication	CAN
	AUX Data Communications-Modbus	RS485
	APP Connectivity	WeCo NooR App
	Cloud Platform	LAN + 4G
BMS PROTECTIONS	SOC Alerts	Built-in
	Cell Over - And Under-Voltage Protection	Built-in
	Overload Protection	Built-in
	High Temperature Alarm	Built-in
	External Stop Button (Contactor Disconnection Impulse)	Built-in
PASSIVE PROTECTIONS	Smoke Alarm	Built-in
	Top Windows Pressure Release	Built-in
	Fire Detection Sensor	Built-in
	Fire Fighting System/Gas Suppression Aerosol	Built-in
SHELF-LIFE ENVIRONMENT	DC Protection	Built-in
	Storage Max. Humidity	RH ≤95% (No Condensation)
	Storage Temperature	Less than 3 months: 0 ~ 45 °C (SOC: 20% ~ 50%)
	Shelf Life Without Inspections	> 3 months: 15 ~ 35 °C (SOC: 20% ~ 50%)
BASIC PARAMETERS	Storage Elevation	≤ 3000 m
	Dimensions (W x D x H) (mm)	1140 x 1190 x 2300
	Weight	1650 kg
	Cabinet Design Working Temperature Range	-20 °C +45 °C (Derating due to Defrost Cycles to be considered)
	Recommended Operative Temperature Range	-10 °C +45 °C (Derating ad Defrost Cycles to be considered during operations, could cause power reductions)
	Defrost Coil Resistor For Extreme Low Temperature	220V AC Heating Resistor For Defrosting Function (Optional)
	IP Rating	IP55
	Cooling Method	Heat Pump and Air conditioner
	A/C Stand By Consumption (Inactive Compressor Status Via EMS)	50 W
	A/C Max. Cooling Power	1200 W
	A/C Max. Heating Power	2500 W
A/C Consumption With Compressor OFF And Fan Running For Air Circulation Only	250 W	
HV BOX Self Consumption	15 W	
HV BOX Consumption With All Fan Running Full Speed	75 W	
Energy Saving Programming Mode	Scheduling via EMS for Full Energy Saving	
Coating	Standard Outdoor Painting	
Shipping Method	Batteries to be installed on site	



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Energy Storage System

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