

WECO

Efficient.
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Cool.



A-KOOL

AIR COOLED ENERGY STORAGE SYSTEM

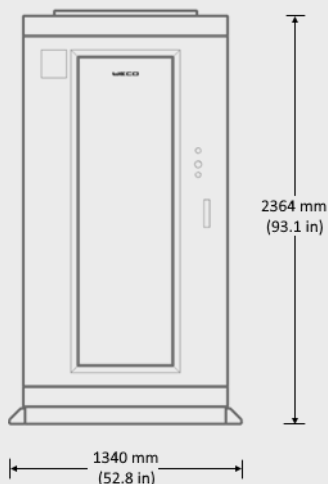
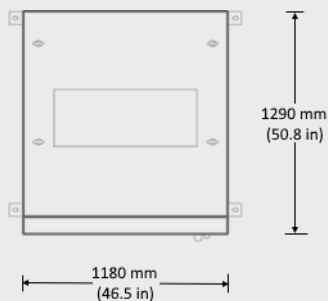
Future-proof your home with cutting-edge technology for long-term energy security
The Next Generation Of Air-Cooled Lithium Battery Cabinets

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	7.7 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 and 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	IP54
	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	

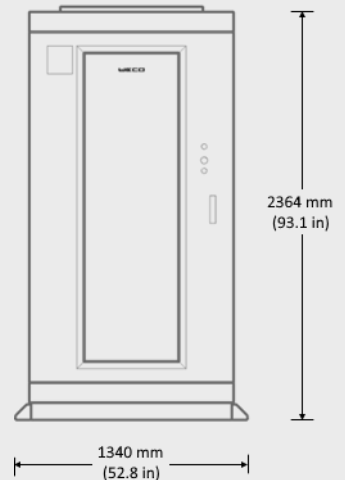
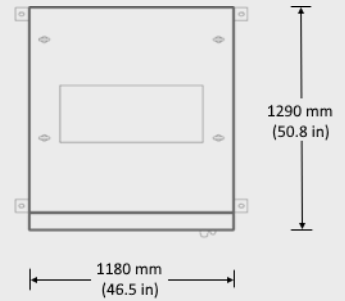


A-KOOL 215/241

0.5C ENERGY STORAGE SYSTEM

Specifications

	215 kWh	241 kWh	
BATTERY	14K3 and 16K1 Lithium Iron Phosphate		
	Cell Specifications	280 Ah @ 3.2 V	314 Ah @ 3.2 V
	Pack Construction	16S	
	Battery Capacity	14.3 kWh	16.1 kWh
	Max. DOD	95%	
	Rated Capacity	215 kWh	241.5 kWh
	Cabinet Max. Slots (Standard)	15 + 1 HVBOX	
	Rated Voltage	768 Vdc	
	Voltage Range	680 ~ 864 Vdc	
	Peak Current	1C (280A)	1C (314A)
SYSTEM	Recommended Discharge/Charge Current (peak)		
	0.5C		
	System Short Circuit Current	8500 A	9300 A
	Battery Short Circuit System	8400 A	9150 A
	HV BOX Fuses Protection	1000 V - 400 A On Both Poles	
	HV BOX Manual Breaker Rating	1500 V - 400 A 2-Pole Type C Automatic Thermal Protection	
	HV BOX BMS Controlled Contactor Current Rating	400 A 2-Pole	
	Cabinet Max. Elevation	3000 m	
	CYCLES	Number Of Cycles @ 0.5C	
		≥ 8000 (90% DOD, 70% SOH)	
COMMUNICATION	Battery To Inverter Communication		
	CAN		
	AUX Data Communications-MODBUS		
	RS485		
BMS PROTECTIONS	APP Connectivity		
	WeCo NooR App		
	Cloud Platform		
	LAN + 4G		
PASSIVE PROTECTIONS	SOC Alerts		
	Built-in		
	Cell Over - And Under-Voltage Protection		
	Built-in		
STORAGE REQUIREMENTS	Overload Protection		
	Built-in		
	High/Low Temperature Alarm		
	Built-in		
BASIC PARAMETERS	External Stop Button (Contactor Disconnection Impulse)		
	Built-in		
	Smoke Sensor		
	Built-in		
BASIC PARAMETERS	Over-Pressure Relief Top Port		
	Built-in		
	Fire Fighting System		
	Built-in		
BASIC PARAMETERS	DC Fuse Protection (Pack Level & HV Box)		
	Built-in		
	Storage Max. Humidity		
	RH ≤ 95% (No Condensation)		
BASIC PARAMETERS	Storage Temperature (20% < SOC < 50%)		
	< 3 Months: 0 < T < 45 °C		
	Shelf Life Without Inspections (20% < SOC < 50%)		
	> 3 Months: 15 < T < 35 °C		
BASIC PARAMETERS	Storage Elevation		
	≤ 3000 m		
	Dimensions (W*D*H) (mm)		
	1140 x 1380 x 2364		
BASIC PARAMETERS	Weight	2400 kg	2500 kg
	Cabinet Design Working Temperature Range		
	-20 °C < T < +50 °C (Derating due to Defrost Cycles to Be Considered)		
	Recommended Temperature Range		
BASIC PARAMETERS	-10 °C +45 °C (Derating and Defrost Cycles to be considered during operations, could cause power reductions)		
	IP Rating	IP54	
	Cooling Method	Heat Pump & Air Conditioning	
	A/C Consumption @ Max. Cooling Power	1200 W	
BASIC PARAMETERS	A/C Consumption @ Max. Heating Power	2500 W	
	HV BOX Self Consumption	15 W	
	HV BOX Consumption With All Fans Running Full Speed	75 W	
	Energy Saving Programming Mode	Scheduling via EMS for Full Energy Saving	
BASIC PARAMETERS	Coating		
	Standard Outdoor Painting (Not for Marine Applications)		
BASIC PARAMETERS	Shipping Method		
	Assembled		



The above-mentioned temperatures are limited to the BMS ranges, such values may not be covered by the performance warranty. We recommend contacting WeCo for the most up-to-date datasheet, read warranty and manual before making any purchasing decisions. No part of this document can be copied or reproduced without WeCo written permission. All data is subject to change without prior notice.

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