Efficient.
Reliable.
Cool.

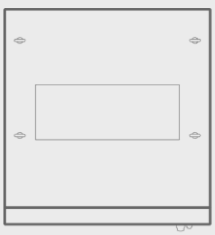
A-KOOL

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
	HV BOX Contactor Rating Current	350 A On Both Poles
	Cabinet Max. Elevation	3000 m
CYCLES	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
	DC Protection	Built-in
SHELF-LIFE ENVIRONMENT	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%)
	Storage Elevation	≤ 3000 m
BASIC PARAMETERS	Dimensions (W x D x H) (mm)	1130 x 1300 x 2366
	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

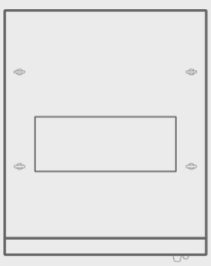
The above-mentioned temperatures are limited to the BMS ranges, such values may not be covered by the performance warranty.
We recommend contacting WeCo for the most up-to-date datasheet, read warranty and manual before making any purchasing decisions.

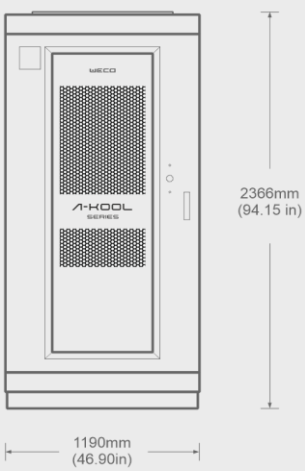
A-KOOL 215/241

0.5C ENERGY STORAGE SYSTEM

Specifications

		215 kWh	241 kWh
BATTERY	Battery Type	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%	
SYSTEM	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 (280 A)	1C (314 A)
	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	
	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/Low Temperature Alarm	Built-in	
PASSIVE PROTECTIONS	External Stop Button (Contactor Disconnection Impulse)	Built-in	
	Smoke Sensor	Built-in	
	Over-Pressure Relief Top Port	Built-in	
	Fire Fighting System	Built-in	
	DC Fuse Protection (Pack Level & HV Box)	Built-in	
STORAGE REQUIREMENTS	Storage Max. Humidity	RH ≤ 95% (No Condensation)	
	Storage Temperature (20% < SOC < 50%)	< 3 Months: 0 < T < 45 °C	
	Shelf Life Without Inspections (20% < SOC < 50%)	> 3 Months: 15 < T < 35 °C	
	Storage Elevation	≤ 3000 m	
	Dimensions (W x D x H) (mm)	1190 x 1500 x 2366	
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	-10 °C +45 °C (Derating ad Defrost Cycles to be considered during operations, could cause power reductions)	
	IP Rating	IP55	
	Cooling Method	Heat Pump & Air Conditioning	
	A/C Consumption @ Max. Cooling Power	1200 W	
	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	
	Coating	Standard Outdoor Painting (Not for Marine Applications)	
	Shipping Method	Assembled	





A-KOOL

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

WeCo Srl a Socio Unico
Viale J. F. Kennedy 113-121
50038 Scarperia e San Piero
Firenze, Italy

weco@wecobatteries.com
www.wecobatteries.com

Download on the App Store

Available on the Google play