

Efficient.  
Reliable.  
Cool.



# A-KOOL

## AIR COOLED ENERGY STORAGE SYSTEM

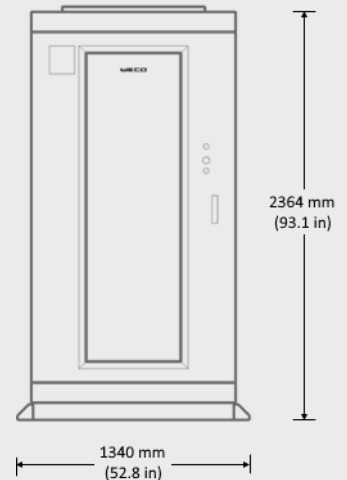
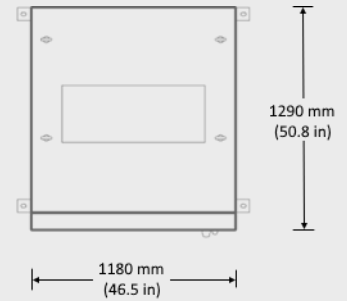
Future-proof your home with cutting-edge technology for long-term energy security  
The Next Generation Of Air-Cooled Lithium Battery Cabinets

# A-KOOL 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%		
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	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	
	1500 V - 400 A 2-Pole	
	Type C Automatic Thermal Protection	
HV BOX Manual Breaker 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		
External Stop Button		
Built-in		
PASSIVE PROTECTIONS	(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)		
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	
	-10 °C +45 °C (Derating and 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		



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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## Energy Storage System

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