A-KOOL RANGE

MODEL YEAR 2026

80 ~ 241kWh

AIR-COOLED ENERGY STORAGE SYSTEM

Efficient.
Reliable.
Kool.



The A-KOOL BESS cabinet for more commercial applications

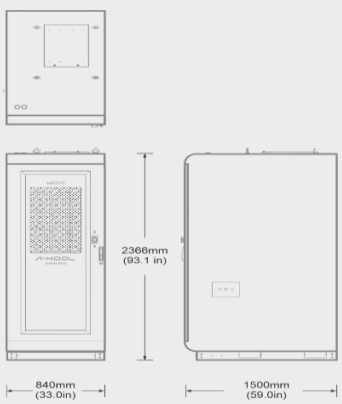
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A-KOOL MODEL 7X

0.5C ENERGY STORAGE SYSTEM

Specifications		80 to 113kWh
BATTERY	Battery type	16K0 Lithium Iron Phosphate
	Cell specifications	314 Ah @ 3.2 V
	Topology	16S
	Battery capacity	16.076 kWh
	Maximum DOD	95%
SYSTEM	Maximum Cabinet Capacity	112.53 kWh
	Maximum slots per cabinet (standard)	7 + 1 HV BOX
	Capacity 1	**80.38kWh**
	Capacity 1 – Voltage Range	232V ~ 284 VDC
	Capacity 2	**96.45kWh**
	Capacity 2 – Voltage Range	278~ 340 VDC
	Capacity 3	**112.53kWh**
	Capacity 3 – Voltage Range	324~ 397Vdc
	Charging Current Discharge (Standard/Peak)	157A/180A@10S
	Recommended discharge/charge current	0.5C
	System short-circuit current	8300 A
	Battery short-circuit system	8875 A
	HV BOX protection fuses	1000 V - 400 A on both poles
	HV BOX hand switch	1500 V - 200 A
	Current rating of HV BOX BMS controlled contactor	400 A
CYCLES	Number of cycles @ 0.5C	≥ 8000 (90% DOD, 70% SOH)
COMMUNICATION	Battery-to-inverter communication	CAN
	AUX-MODBUS data communications	RS485
	APP connectivity	WeCo NooR App
	Cloud Platform	YES (via WI-FI Dongle)
	SOC Alerts	Integrated
BMS PROTECTORS	Cell overvoltage and undervoltage protection	Integrated
	Overload protection	Integrated
	High/Low Temperature Alarm	Integrated
PROTECTIONS PASSIVE	External stop button	Integrated
	Smoke Sensor	Integrated
	Overpressure relief valve	Integrated
	Fire extinguishing system	Integrated
	DC fuse protection (package level and HV box)	Integrated
	Storage Max. Humidity	RH ≤ 95% (non-condensing)
STORAGE REQUIREMENTS	Storage Temperature	Less than 3 months: 0 ~ 45 °C (SOC: 20% ~ 50%)
	Validity period without inspection	> 3 months: 15 ~ 35 °C (SOC: 20% ~ 50%)
	Storage height	≤ 3000 m
	Dimensions (W x D x H) (mm)	840 x 1500 x 2366
	Weight	1400 kg
	Cabinet Working Temperature Range	-20 °C < Ta < +50 °C (Derating due to defrost cycles to consider)
BASIC PARAMETERS	Recommended temperature range	-10 °C < Ta < +45 °C (Derating due to defrost cycles to consider)
	IP rating	IP55
	Cooling method	Heat pump and air conditioning
	A/C consumption @ Max. Cooling capacity	2000 W
	A/C consumption @ Max. Heating power	1000 W
	HV BOX Self-consumption	15 W
	Consumption with all fans at full capacity	< 105 W
	Energy-saving programming mode	Programming via EMS for full energy savings
	Coating	Standard exterior painting (Not for marine applications)
	Shipping Method	Assembled



Dry Pipe inlet for
Sprinkler connection

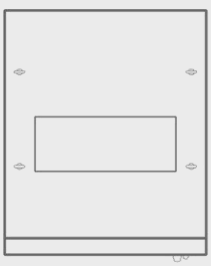
The temperatures mentioned above are limited to BMS ranges, these values may not be covered by the performance warranty.
We recommend that you contact WeCo for the most up-to-date datasheet, read the warranty and manual before making any purchase decisions.
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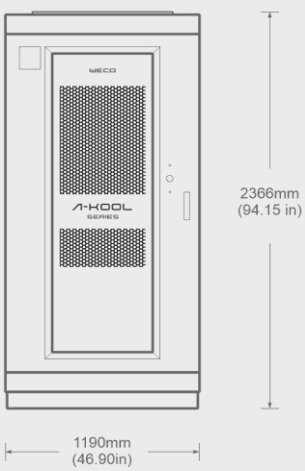
A-KOOL MODEL **241**

0.5C ENERGY STORAGE SYSTEM

Specifications

		241 kWh
BATTERY	Battery Type	16K0 Lithium Iron Phosphate
	Cell Specifications	314 Ah @ 3.2 V
	Pack Construction	16S
	Battery Capacity	16.1 kWh
	Max. DOD	95%
SYSTEM	Rated Capacity	241.5 kWh
	Cabinet Max. Slots (Standard)	15 + 1 HV BOX
	Rated Voltage	768 Vdc
	Voltage Range	680 ~ 852 Vdc
	Peak Current	1C (314 A)
	Recommended Discharge/Charge Current (Peak)	0.5C
	System Short Circuit Current	9300 A
	Battery Short Circuit System	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	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





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80 ~ 241 kWh

Powering a greener, smarter future

Plug & Play Integration



Pre-assembled plug-and-play cabinet

Combinable Inverter



Can be combined with a hybrid inverter.
Power between 25 and 50 kW.

Intelligent Monitoring



APP NooR
Make your life easier



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