

WECO

A-KOOL RANGE

80 ~ 241kWh

AIR-COOLED ENERGY STORAGE SYSTEM

**MODEL
YEAR
2026**



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)
BMS PROTECTORS	SOC Alerts	Integrated
	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

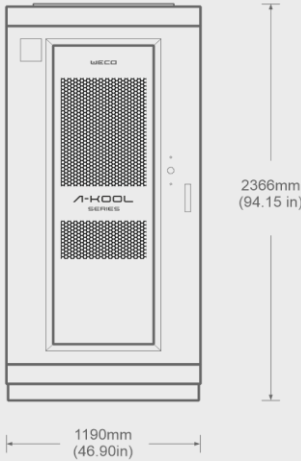
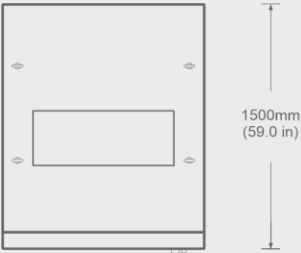
A-KOOL MODEL 241

0.5C ENERGY STORAGE SYSTEM



Specifications

	241 kWh
BATTERY	Battery Type
	16K0 Lithium Iron Phosphate
	Cell Specifications
	314 Ah @ 3.2 V
	Pack Construction
SYSTEM	16S
	Battery Capacity
	16.1 kWh
	Max. DOD
	95%
	Rated Capacity
	241.5 kWh
	Cabinet Max. Slots (Standard)
	15 + 1 HV BOX
	Rated Voltage
CYCLES	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
COMMUNICATION	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
	HV BOX BMS Controlled Contactor Current Rating
	3000 m
	Cabinet Max. Elevation
BMS PROTECTIONS	Number Of Cycles @ 0.5C
	≥ 8000 (90% DOD, 70% SOH)
	Battery To Inverter Communication
	CAN
	AUX Data Communications-MODBUS
PASSIVE PROTECTIONS	RS485
	APP Connectivity
	WeCo NooR App
	Cloud Platform
	LAN + 4G
STORAGE REQUIREMENTS	SOC Alerts
	Built-in
	Cell Over - And Under-Voltage Protection
	Built-in
	Overload Protection
BASIC PARAMETERS	Built-in
	High/Low Temperature Alarm
	Built-in
	External Stop Button
	Built-in
STORAGE REQUIREMENTS	(Contactor Disconnection Impulse)
	Built-in
	Smoke Sensor
	Built-in
	Over-Pressure Relief Top Port
BASIC PARAMETERS	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%)
BASIC PARAMETERS	> 3 Months: 15 < T < 35 °C
	Storage Elevation
	≤ 3000 m
	Dimensions (W x D x H) (mm)
	1190 x 1500 x 2366
STORAGE REQUIREMENTS	Weight
	2500 kg
	Cabinet Design Working Temperature Range
	-20 °C < T < +50 °C
	(Derating due to Defrost Cycles to Be Considered)
BASIC PARAMETERS	Recommended Temperature Range
	-10 °C < +45 °C
	(Derating ad Defrost Cycles to be considered during operations, could cause power reductions)
	IP Rating
	IP55
STORAGE REQUIREMENTS	Cooling Method
	Heat Pump & Air Conditioning
	A/C Consumption @ Max. Cooling Power
	1200 W
	A/C Consumption @ Max. Heating Power
BASIC PARAMETERS	2500 W
	HV BOX Self Consumption
	15 W
	HV BOX Consumption With All Fans Running Full Speed
	75 W
STORAGE REQUIREMENTS	Energy Saving Programming Mode
	Scheduling via EMS for Full Energy Saving
	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.

WECO

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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