

WECO

A-KOOL 7X

80 ~ 112kWh

**MODEL
YEAR
2026**

AIR-COOLED ENERGY STORAGE SYSTEM



Efficient.
Reliable.
Kool.

The A-KOOL 7X BESS cabinet for more compact commercial applications

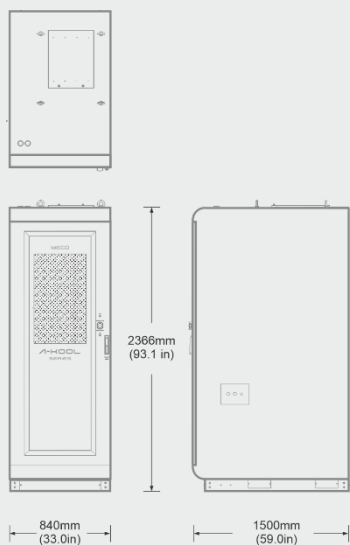
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A-KOOL 7X

0.5C ENERGY STORAGE SYSTEM

Specifications

		80 to 112kWh
BATTERY	Battery type	16K0 Lithium Iron Phosphate
	Cell specifications	314 Ah @ 3.2 V
	Topology	16S
	Battery capacity	16.0 kWh
	Maximum DOD	95%
SYSTEM	Maximum Cabinet Capacity	112 kWh
	Maximum slots per cabinet (standard)	7 + 1 HV BOX
	Capacity 1	80kWh
	Minimum configuration voltage 80kWh (Operating Voltage Capacity 1)	232V ~ 284 VDC
	Capacity 2	96kWh
	Minimum configuration voltage 96kWh (Operating Voltage Capacity 2)	278~ 340 VDC
	Capacity 3	112kWh
	Minimum configuration voltage 112kWh (Operating Voltage Capacity 3)	324~ 397Vdc
	Charging Current Discharge (Standard/Peak)	157A/180A@10S
	Recommended discharge/charge current	0.5C
CYCLES	System short-circuit current	8300 A
	Battery short-circuit system	8875 A
COMMUNICATION	HV BOX protection fuses	1000 V - 400 A on both poles
	HV BOX hand switch	1500 V - 200 A
BMS PROTECTORS	Current rating of HV BOX BMS controlled contactor	400 A
	Cabinet Max. Maximum height above sea level	3000 m
	Number of cycles @ 0.5C	≥ 8000 (90% DOD, 70% SOH)
PROTECTIONS PASSIVE	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
	Cell overvoltage and undervoltage protection	Integrated
	Overload protection	Integrated
STORAGE REQUIREMENTS	High/Low Temperature Alarm	Integrated
	External stop button (contactor disconnect pulse)	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)
BASIC PARAMETERS	Storage Temperature	Less than 3 months: 0 ~ 45 °C (SOC: 20% ~ 50%) > 3 months: 15 ~ 35 °C (SOC: 20% ~ 50%)
	Validity period without inspection	≤ 3000 m
	Storage height	840 x 1500 x 2366
	Dimensions (W x D x H) (mm)	1400 kg
	Weight	-20 °C < Ta < +50 °C (Derating due to defrost cycles to consider)
	Cabinet Working Temperature Range	-10 °C < Ta < +45 °C (Derating and defrost cycles to be considered during operations could cause power reductions)
	Recommended temperature range	IP55
	IP rating	Heat pump and air conditioning
	Cooling method	2000 W
	A/C consumption @ Max. Cooling capacity	1000 W
	A/C consumption @ Max. Heating power	15 W
	HV BOX Self-consumption	< 105 W
	Consumption with all fans at full capacity	Programming via EMS for full energy savings
	Energy-saving programming mode	Standard exterior painting (Not for marine applications)
	Coating	Assembled
	Shipping Method	



Dry Pipe inlet for
Sprinkler connection



7X 80 ~ 112 kWh

Powering a greener, smarter future

Plug & Play
Integration



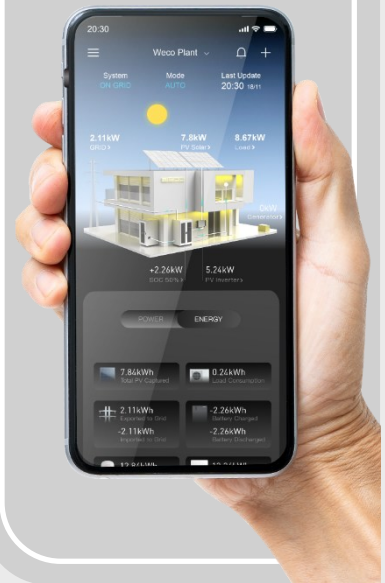
Seamless integration with
WeCo TK 25-50 Series inverters

Combinable
Inverter



Can be combined with Hybrid inverter
Powers between 25 and 50kW

Intelligent
Monitoring



APP NooR
Make your life easier



Cabinet A-KOOL 7X

**Power
Compact
Commercial**

*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 7X

ENERGY STORAGE SYSTEM

ESS INVERTER

The new generation has arrived and is WeCo.

Liquid-cooled hybrid inverters offer efficient heat dissipation, longer component life, higher power density, adaptability to various climates, and reduced maintenance, ensuring reliable, quiet, and energy-efficient performance

The most compact BESS cabinet for commercial applications.



WECO

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