

A-Kool

Energy Storage System



Model Name	A-Kool-215 OUTDOOR		
Battery	Battery Type	Lithium Iron Phosphate	
	Cell Specifications	280Ah @ 3.2V	
	Pack Construction	16S	
	Battery Capacity	14.3 kWh	
	Max DoD	90%	
System	Rated Capacity	215 kWh	
	Cabinet Max Slots (Standard)	15+1 HVBOX	
	Rated Voltage	768 VDC	
	Voltage Range	680 ~ 864 VDC	
	Peak Current	1C (280A)	
	Recommended Discharge/Charge Current (Sustained)	0.5C (140A)	
	System Short Circuit Current	8500 A	
	Battery Short Circuit System	8400 A	
	HV BOX Fuses Protection	1000V-400A on both poles	
	HV BOX Manual Breaker Rating	1500V 400A 2-Pole Type C Automatic Thermal Protection	
	HV BOX BMS-controlled Contactor Current Rating	400A 2-Pole	
	Cabinet Max Elevation	3000 m	
	Cycles	Number of Cycles @ 0.5C	≥ 8000 (90% DOD, 70% SOH)
		Battery to Inverter Communication	CAN
	Communication	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 (Contactor Disconnection Impulse)	Built-in	
Passive Protections	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*D *H)	1140x1380x2300 mm	
	Weight	2400 kg	
	Cabinet Design Working Temperature Range	-15°C < T < +50°C (Defrost Cycles to Be Considered)	
Basic Parameters	Compressor Temperature Operative Temperature	-40°C +50°C (Defrost Cycles to be considered)	
	IP Rating	IP54	
	Cooling Method	Heat Pump & Air Conditioning	
	A/C Consumption @ Max Cooling Power	1200W	
	A/C Consumption @ Max Heating Power	2500W	
	HV BOX Self Consumption	15W	
	HV BOX Consumption With All Fans Running Full Speed	75W	
	Energy Saving Programming Mode	Scheduling via EMS for Full Energy Saving	
	Coating	Standard Outdoor Painting (Not for Marine Applications)	
	Shipping Method	Batteries To Be Mounted On-Site (Fully Assembly On Request)	