

ACBOX

ALL-IN-ONE SOLUTION FOR UTILITY-SCALE BESS

2 h | 2.47 MVA, 5.03 MWh

4 h | 2.47 MVA, 8.47 MWh

8 h | 1.23 MVA, 8.47 MWh



MODELS	Duration	2 h	4 h	8 h
	Batteries Configuration	6 x 838 kWh	12 x 705 kWh	12 x 705 kWh
	Batteries Nameplate energy	5030 kWh	8466 kWh	8466 kWh
	Power	2.47 MVA	2.47 MVA	1.23 MVA
	Footprint	25 ft	35 ft	35 ft
BATTERIES	Battery type	LFP		
	Cell density	315 Ah	530 Ah	530 Ah
	Cell charge/discharge rating	0.5P		
	Rack configuration	2P416S	1P416S	1P416S
AC PORT	Current @ 1500 V _{DC} , 40 °C	1960 A	1960 A	980 A
	Rated voltage	730 V		
	Operating voltage range	± 15 %		
	Operating frequency	50 Hz / 60 Hz ± 10 %		
	Power factor	0 UE to 0 OE		
	THDi @ P _{NOM}	< 2.5 %		
	Type of connection	Busbar		
	Protections Surge protection device	Type I+II		
	Protections Insulation monitoring	Yes		
	Protections Circuit breaker	Motorized		
AUX PORT	Input 1	400 V _{AC} , 50/60 Hz, 3-phase (3+N)		
	Input 2 (UPS)	230 V _{AC} , 50/60 Hz, 1-phase		
	Protections Circuit breakers	Yes		
	Protections SPD	Type II+III		
SAFETY	Fire prevention	Early gas detection and extraction		
	Fire detection	Optical smoke sensors and thermal sensors		
	Fire suppression	Aerosol Dry pipe (optional)		
	Fire resistance	REI 120 insulation on all sides		
	Deflagration provisions	NFPA 69-compliant vents		
ENVIRONMENTAL	Installation	Outdoor		
	Ingress Protection	Container: IP 55, TMS: IP X5		
	Corrosion resistance	Container: C5, TMS: C4H		
	Cooling	Custom designed industrial chiller with free-cooling capability		
	Altitude	Up to 1000 m a.s.l.		
	Temperature range (optional)	(-40 °C) -20 °C to 40 °C		
MECHANICAL	Dimensions (w/o cooling unit)	20 ft high-cube	30 ft high-cube	30 ft high-cube
	Weight	42000 kg	70000 kg	70000 kg
	Color	RAL 9016 / 6037		
FEATURES	Grid forming	Yes, with synthetic inertia and virtual admittance		
	Black start	Available		
	Communication	Modbus TCP/IP over Ethernet Fiber-optic (optional)		
COMPLIANCE	Declaration of conformity	CE, UKCA		
	Compliance System	IEC 62933-5-2		
	Compliance Batteries	UL 1973, UL 9540A, IEC 62619, IEC 63056, UN 3536		
	Compliance Grid code	VDE-AR-N 4110, 4120, 4130, Terna Allegato A.79, NTS 2.1 SEPE, SENP		