



ADON

RENEWABLES



PowerBox

Infinitely Scalable

PowerBox can meet your demand needs and is a great solution for commercial properties and utility scale projects.

Easy Installation

PowerBox ships easily around the world thanks to its modular design.

Safety

PowerBox containers are outfitted with advanced fireproofing technology.

Smart Control

PowerBox is managed by Adon's EMS system which allows for smart control and wireless software updates.



CONTAINERIZED BATTERY SYSTEM	20 FOOT CONTAINER
Nominal Capacity @BOL 2.5 MWh	2.5 MWh
Fully Integrated Container with C5 Corrosion Resistant Paint	20'(L) x 8'(W) x 9.5'(H)
Weight Fully Integrated Container	60,000 lbs.
HVAC	12.5kW x 2 (UL Listed AC with Anti-Corrosion Coating)
Fire Suppression Agent	Novec-1230
Fire Suppression Control	Automatic Controller with Smoke and Temp Sensors
AUXILIARY CABINET	
Control Cabinet	Conflux Connection for up to 8 Racks
	Monitoring System, MBMS and UPS
	Auxiliary switch and PDU
Master BMS	3rd Level Controller for Battery Racks
UPS system	UPS + 2.4kWh UPS Battery for BMS and MBMS
Energy Management System	SEL RTAC Controller with Machine Learning (Programming Included)
Switch	Switching Between BMS and Master BMS
BATTERY RACKS	
Battery Rack	20 Battery Modules per Rack (313 kWh each) and 1 BMS
Battery Module	64V / 245Ah Lithium Ferrous Phosphate (LiFePO4) Chemistry
BMS External	Battery Rack Controller
CABLES	
Power Cable	Cable Connect Battery Rack to DC Cabinet and PCS
Communication Cable	Cable Connects Battery Rack to Master BMS and PCS
Auxiliary Device Cable	Cable Power and Communication Cable for Auxiliary Cabinet
Battery Module Cable	Cable Communication and Power Cable Between Battery Modules
COMMUNICATION	
Communication Protocol	CANBUS/Modbus RTU/TCP/IP
TEMPERATURE & HUMIDITY	
Operation Temp Range	10 - 40 °C
Storage Temp Range	20 - 60 °C
Humidity	5 - 95% (without condensing)
CURRENT & VOLTAGE	
Discharge cut-off voltage	1160V (standard configuration, contact for alternate)
Charge cut-off voltage	1440V (standard configuration, contact for alternate)
Nominal Current 120A	120A
Max. Continuous Current 180A	180A
Peak Current	210A Continuous (5min)
	320A Continuous (30sec)
Overcurrent/Duration	96KA/2ms
PERFORMANCE	
Round-trip efficiency (RTE)	@1C 95%
Depth of Discharge	95%
Operation Lifecycle	>5,000 cycles
Operation Life	15+ years
CERTIFICATIONS	
Certifications Pending (Estimated Q4 2023)	UL9540, UL1973, UL9540A, IEC62477-1, IEC62040-1, IEC62619, CE LVD, CE EMC, UN38.3
*Specifications subject to change. Please contact Adon Renewables directly for the most current information.	