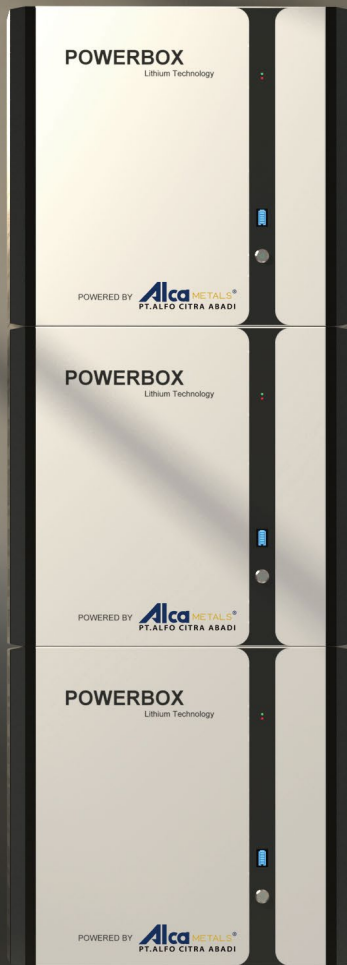




POWERBOX

Stay energized even when the grid is down

When the grid is available, power produced by your solar system is used by the home and excess energy is sent into the utility grid. In the event of a power outage the backup inverter will automatically turn on to pump critical appliances such as the fridge/freezer, AC, lights, well pump, computer, phone and more. The combination of solar energy and battery storage works seamlessly to provide power to essential appliances during an outage, working similar to an off-grid system.

Residential Specification



Physical Parameter

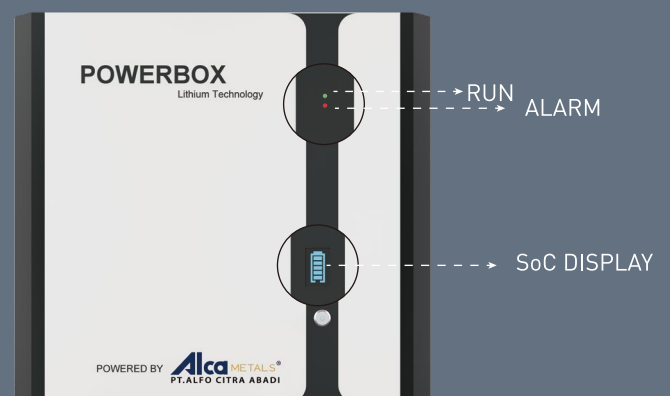
Model No.	F5,5kWh
Battery Pack	51.2V100Ah
Battery type	LiFePO4 Chemistry
Approx Weight	51.4kgs
Dimension	590*150*550mm
Waterproof rating	IP56

Technical Parameter

Nominal Voltage	51.2V
Rated Capacity	100Ah
Discharge Current	100A
Charge Current	≤ 50A
Discharge Cut-off Volt	40V
Charge Mode	CC/CV
Charge Voltage	58.4V
Working Temperature	-20°C~+60°C
Humidity	5%≤RH≤95%
Communication	CANBus/RS485/RS232
Max.Parallel	16 Modules
Certification	UL1973,TUV CB/IEC62619

Electrical Parameter

Cycle Life	≥5000 Cycles
Life Span	20 Years
Warranty	Product Warranty: 5 Years
	Performance Warranty: 5 Years



Residential Specification

Physical Parameter

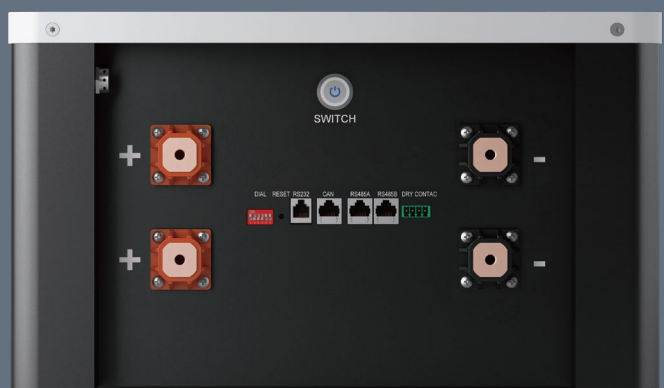
Model No.	F7,7.8kWh	F10,10kWh
Battery Pack	51.2V150Ah	51.2V200Ah
Battery Type	LiFePO4 Chemistry	LiFePO4 Chemistry
Approx Weight	73kgs	89kgs
Dimension	420*210*760mm	420*260*760mm
Waterproof rating	IP56	

Technical Parameter

Nominal Voltage	51.2V	51.2V
Rated Capacity	150Ah	200Ah
Discharge Current	100A	200A
Charge Current	≤ 100A	≤ 100A
Discharge Cut-off Volt	37.5V	37.5V
Charge Mode	CC/CV	CC/CV
Charge Voltage	58.4V	58.4V
Working Temperature	-20°C~+60°C	-20°C~+60°C
Humidity	5% ≤ RH ≤ 95%	5% ≤ RH ≤ 95%
Communication	CAN/RS485/RS232	CAN/RS485/RS232
Max.Parallel	16 Modules	16 Modules
Certification	UL1973,TUV CB/IEC62619	UL1973,TUV CB/IEC62619

Electrical Parameter

Cycle Life	≥ 5000 Cycles
Life Span	20 Years
Warranty	Product Warranty: 5 Years
	Performance Warranty: 5 Years



POWERBOX

ALCA Metals Power Station is designed for Home On/Off Grid application. The aystem includes battery module and smart BMS. The flexible modular design can extend the system capaicty

POWERBOX



Production Base

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