

# Lithium iron phosphate ( lifePO4) Battery

## ALFP-48200H( 10.24KVh 200 Ah)

### Features Of Life PO4 Battery

**Longer Cycle Life:** Offers up to 10 times longer cycle life and five times longer float/calendar life than lead acid battery, helping it minimize replacement cost and reduce total cost of ownership.

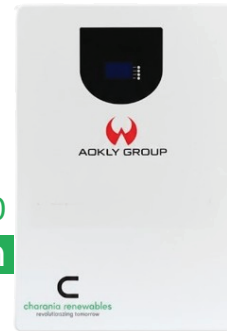
**Lighter Weight:** About 40% of the weight of a comparable lead acid battery. A'drop in' replacement for lead acid batteries.

**Higher Power :** Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.

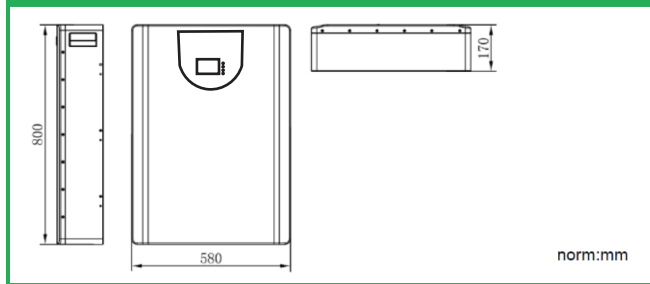
**Wider Temperature Ranger :** -20 ~ 60°C

**Superior Safety :** Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.

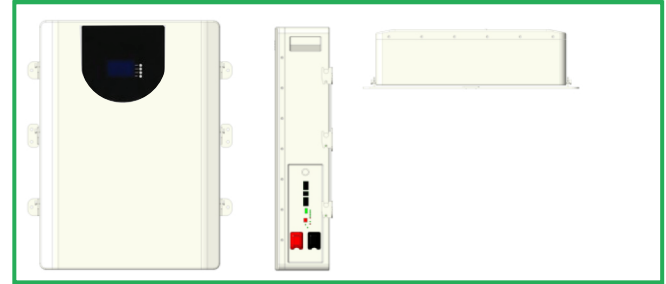
ALFP-48200  
10.24 kwh



### Physical Dimension - mm



### Structure



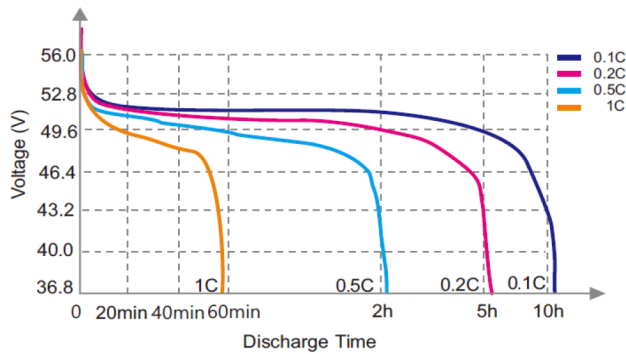
### Specification

Electrical Characteristics	Nominal Voltage	51.2V
	Nominal Capacity	200Ah
	Nominal Energy	10240Wh
	Combination Method	16S2P
	Cycle Life	≤ 6000 cycles @80%DOD @35°C
	Months Self Discharge	1%/Month
	Efficiency of Charge	≤ 97%
	Efficiency of Discharge	≤ 98%
Standard Charge	Recommended Charging Voltage	57.6V
	Recommended Charging Current	40A
	Max. Charging Voltage	58.4V
	Max. Charging Current	100A
Standard Discharge	Recommended Discharging Cut-off voltage	100A
	Max. Pulse Current	220A ( 5S)
	Discharge Cut-off Voltage	43.2V
Environmental	Charge Temperature	0°C ~ 55°C
	Discharge Temperature	-20°C ~ 60°C
	Storage Temperature	0°C ~ 40°C
Other	IP Class	IP32
	Plastic Case	Metal
	Dimensions ( in. /mm. )	800*580*170mm
	Weight ( lbs. /kg. )	97KG
	Others ( optional )	CAN communication, LCD display

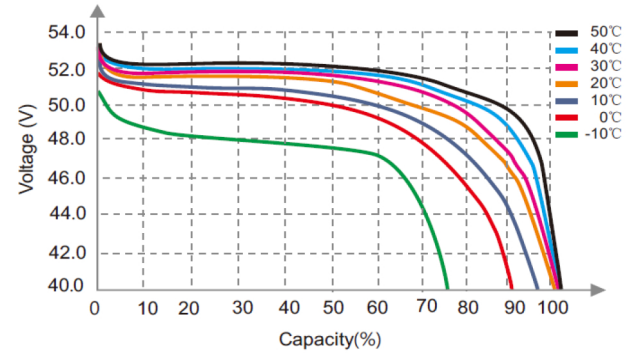
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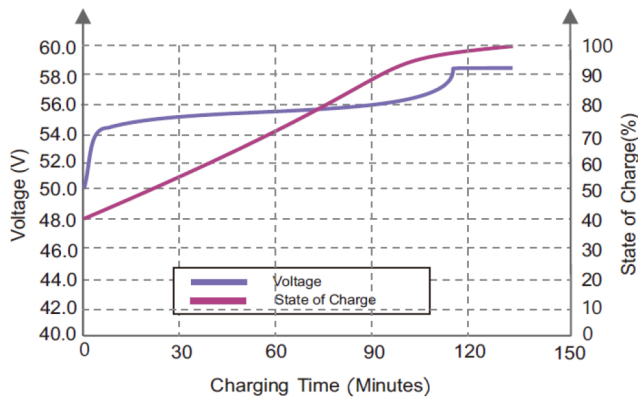
### Different Rate Discharge Curve ( 25° C )



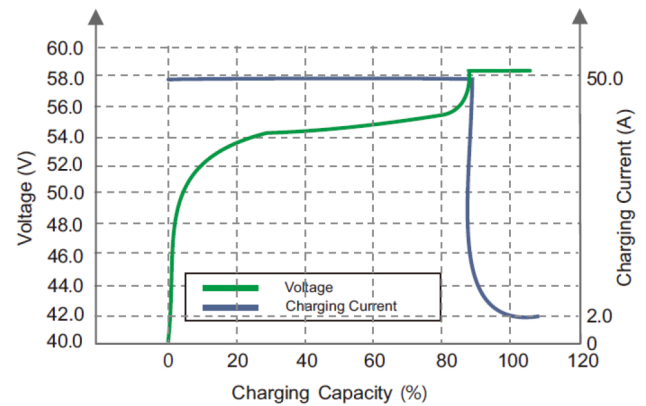
### Different Temperature Discharge Curve ( 0.5° C )



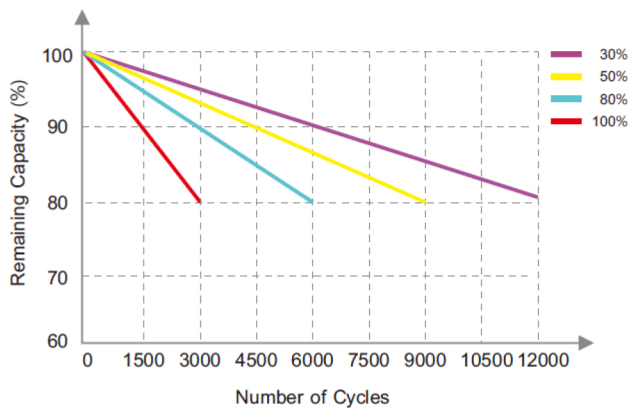
### State of Charge Curve ( 0.5C, 25° C )



### Charging characteristics ( 0.5C, 25° C )



### Different DOD Discharge Cycle Life Curve ( 1c )



### Different Temperature Self Discharge Curve

