

LFELi 48200S - Multi-protocol

LiFePO4 specifications



FEATURES



- **Longer Cycle Life** - Offers up to 20 times longer cycle life & 5 times longer calendar life than lead acid batteries, minimizing replacement cost.



- **Superior Safety** - Lithium Iron Phosphate chemistry eliminates explosion risk or combustion due to high impact, overcharging or short circuit situation. First life battery.



- **Higher usable capacity** - Delivers high power, while maintaining cycling of double energy capacity of lead acid battery.



- **Wider Temperature Range** - $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$.



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



- **Multi-protocol communication** - Multiple protocols that can be selected via PC with an included RS232 cable.



- **Pre-Charge** - The battery comes with a capacitor charging feature for high inrush current, as well as a charge current limiter.



Solar/wind
Energy Storage



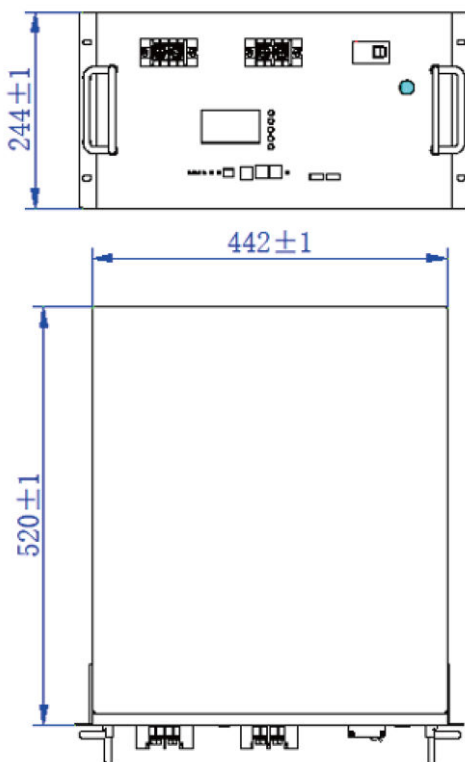
Caravan
power



Power
tools



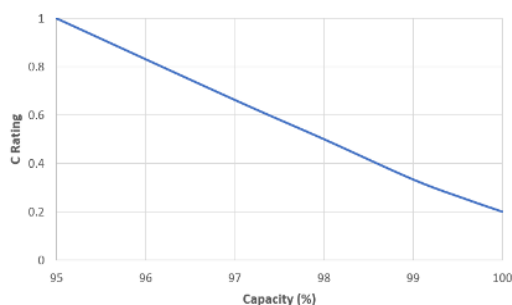
Backup power for
UPS systems



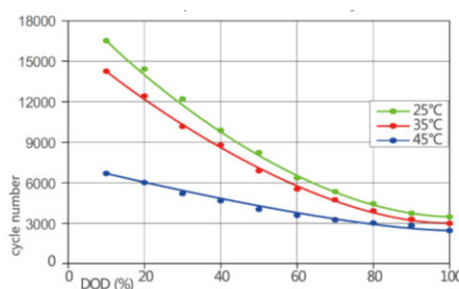
Model:	LFELi 48200S
Nominal voltage:	48V
Nominal Capacity:	200Ah
Energy:	9600Wh
Voltage range:	45~53V (limit: 43~54V)
Cycle life:	>3500 cycles @0.2C 100% DOD 25 °C
Self discharge per month:	<3%
Charge voltage:	53V $\pm 0.5\text{V}$
Charge current:	Recommended 20~90A
Max Discharge current:	100A Continuous (120A Pulse)
Communication:	Can or R485 (RS232 to USB)
Temperature Range:	$-20 \sim 60^{\circ}\text{C}$

Model:	LFeLi-48200S
Charge:	
Rated Voltage:	48V (45.5V ~ 52.5V) [15 Cell]
Range Limit:	[41V ~ 54V _{Max}]
Recommended Charge Setting:	Bulk/Boost/Absorption: 53V Float: 51.0V~52.5V
Cut-off:	45.5~46V (without communication) 43~45V (with coms and SOC settings)
Rated Capacity:	200Ah (9600Wh)
Max Charge current:	90A (rec ≤85A)
Max Discharge current:	100A [120A _{Peak}]
Life:	
Max Cycles (Design life):	More than 16000 Cycles at 10% DOD (more than 20 years)
Min Cycle life (Operating Life):	More than 3500 at 95% DOD (@ 25°C) (more than 9 years)
DOD:	Recommended: 95% _{max} [Note consider connected device's low power consumption]
Features:	
Soft-Start/Pre-charge:	0.66~0.77A [2A _{max}] (Allows low current start up for inverter such as Victron and Schneider that do not include soft-start) (Inverter capacitor pre-charger)
Built in DC Breaker:	125A DC breaker and power button.
Auto Shutdown:	Low Cell sleep
Over/Under-voltage protection:	Load disconnect
Auto-Recovery:	Recovers: UVP with charge, OVP with discharge and balancing.
Over/Under-Temp Protection:	Charging: 0 to +50°C Discharging: -20 to +50°C Storage: -20 to +60°C
Charge Current Limiting:	To 20A (Settable) [Default activation: 60A, settable]
Warranty:	4-Years (extended 7 year)
Communication:	RS485; RS232; CAN
Flame Retardant:	UL94V-0
Ratings:	IP31; CE-EMC; IEC62619; ISO14001; ISO9001
Compatibility:	
Active protocols:	Sunsynk (Deye, Fusion), Schneider, Phocos, EAST, Victron, Lux power, Growatt, SolaX, Goodwe, Imeon Energy, Selectronic, Sofar, Solis, Sungrow, Delios, Sematic
General Data:	
Operating temperature:	15 ~ 35°C (0 ~ 60°C)
Terminals:	Double Poled (rated 125A across terminal)
Max relative humidity:	90%
Net Weight:	79kg
Display:	LCD + LEDs
Alarm:	Led and buzzer (settable)
Unit Dimensions [W×H×D]:	442 × 244 × 520 (mm)

C-Rating in relation to capacity (25°C)



DOD Discharge Cycle Life Curve



Temperature To capacity curve

