

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°C ~ 60°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.

61.5kg



Solar/wind Energy Storage



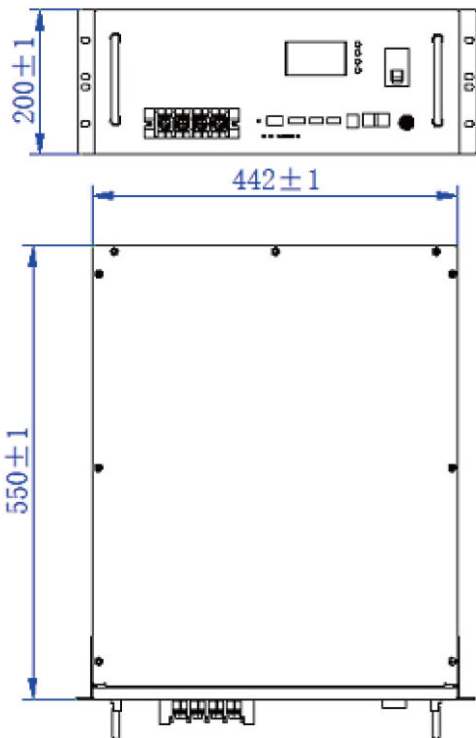
Caravan power



Power tools



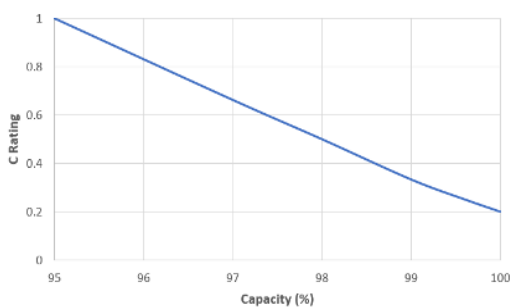
Backup power for UPS systems



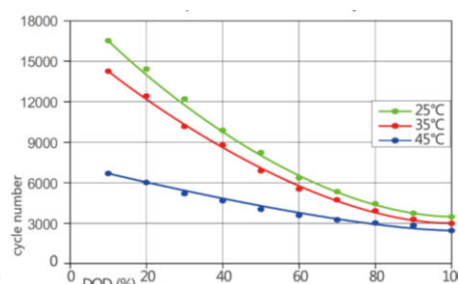
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|----------------------------------|------------------------------------|
| Model: | LFELi 48150S |
| Nominal voltage: | 48V |
| Nominal Capacity: | 150Ah |
| Energy: | 7200Wh |
| Voltage range: | 45~53V (limit: 43~54V) |
| Cycle life: | >3500 cycles @ 0.2C 100% DOD 25 °C |
| Self discharge per month: | <3% |
| Charge voltage: | 53V ±0.5V |
| Charge current: | Recommended 20~75A |
| Max Discharge current: | 100A Continuous (120A Pulse) |
| Communication: | Can or R485 (RS232 to USB) |
| Temperature Range: | -20~60 °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: | 150Ah (7200Wh) |
| Max Charge current: | 75A (rec ≤70A) |
| 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: | 61.5kg |
| Display: | LCD + LEDs |
| Alarm: | Led and buzzer (settable) |
| Unit Dimensions [W×H×D]: | 442 × 200 × 550 (mm) |

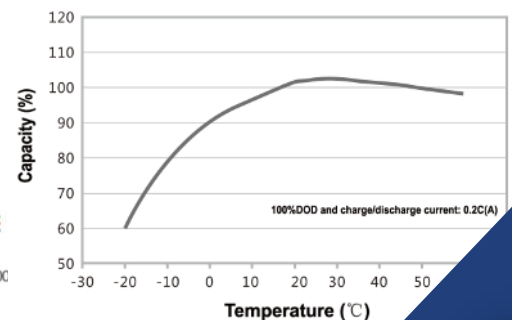
C-Rating in relation to capacity (25°C)



DOD Discharge Cycle Life Curve



Temperature To capacity curve



E-mail JHB: sales@average.co.za

Address JHB : 16B Axle Drive Clayville, Olifantsfontein

Website: www.average.co.za

E-mail CPT: salescpt@average.co.za

Address CPT: unit 4, 4 Warbler Close, Montague gardens

Tel JHB: +27 (0) 12 450 0940