

SLCD40051 - 51.2V400Ah

Product Features

Residential Low voltage battery system

- ⊗ High energy density, small size, light weight, no pollution;
- ⊗ 0.75C rate charge/discharge;
- ⊗ Match varied inverters;
- ⊗ IP20 grade, suitable for indoor;
- ⊗ 15 years design life, Stable performance, maintenance-free;



2 Layers Safety Design

Much safer
More reliable.

Smart management system

Available with Wifi,
Bluetooth, LCD.

0.75C Charge/Discharge

Efficient charging and
discharging.

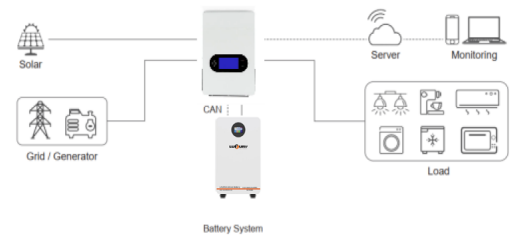
Single Management

Ultimate security and
ultra-simple O&M.

Multi-Function

Luxury lithium series batteries provide superior performance, capacities and reliability. Using state of high power cell technology, the lithium series is designed for environmentally sensitive areas that require super long cycle life capabilities.

Luxury lithium batteries are widely used in industrial, residential, commercial and private applications. The maintenance free construction and advanced design features makes the lithium series the definitive choice for a wide variety of markets. Like solar and renewable energy storage, electric vehicle, golf cart and industrial equipment, floor machines, forklifts, aerial lifts, and robotics; marine, RV, and no-idle solution; Mobility and Medical Equipment; Telecom, Broadband and Cable TV; UPS systems



Factory/Office Park/Hotel/Restaurant
Arbitraging from the TOU tariff, peak-load shifting



Mobile charger

Used as a backup power for household use



Off-grid

Multi-energy storage system with solar, diesel generator, wind turbine, etc.

SLCD40051 - 51.2V400Ah

Product Parameters

Residential Low voltage battery system

| Model | SLCD40051 |
|----------------------------------|-----------------------------|
| Battery Parameters | |
| Battery cell model | LiFePO ₄ - 400Ah |
| Battery capacity | 20.48kWh |
| Dimensions(LxWxH) | 880*540*237mm |
| Weight | 160 |
| Terminal Type | T16/Plug |
| Terminal Torque | 8.5N*M |
| Case Material | Steel |
| BMS build-in | Yes, software |
| Efficiency – round trip | > 99.5 |
| Self Discharge per Month | < 3% |
| Max parallel connectors | 15 |
| Series connections | 1 |
| Cycle life (1C, 25°C@100% DOD) | > 6000 |
| Discharge Temperature | -23~65°C |
| Charge Temperature | -3~65°C |
| Storage Temperature | -20~45°C |
| Bluetooth(App) | Optional |
| LCD Screen | Optional |
| Heating function | Optional |
| Voltage Window | 44.8~57.6V |
| Recommend Charge Voltage | 57V |
| Max Charge Voltage | 59V |
| Recommend Charge current | 20A |
| Max continuous charge current | 150A |
| Recommend Discharge voltage | 46V |
| Max Discharging Voltage | 44.8V |
| Max Continuous Discharge current | 100A |
| Peak Discharge Current | 120A |
| Communication | RS485,Can |

* The system will be derated when the ambient temperature exceeds 45°C.

** The system will be derated when the altitude is between 2000 and 3000m.

Certifications

System: CE(IEC61000,IEC62619,IEC62477),UN3480, UKCA ;

Cell: IEC 62619, UL1973, UL9540A;

Pack: UN38.3;

Note: Product specifications are subject to change without any prior notice as per regular modifications made by company.

Performance Residential Low voltage battery system

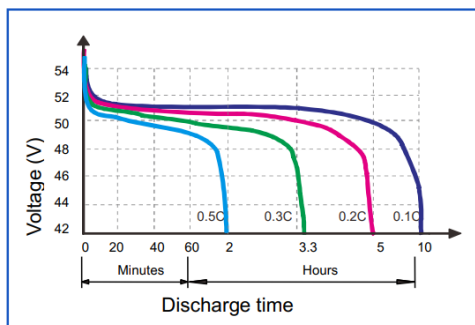
Constant Current Discharge Data (Amperes @ 25°C)

| Discharge Time | 1h | 2h | 3h | 4h | 5h | 10h | 20h |
|-------------------------|------|------|------|------|-----|-----|-----|
| Cut off voltage (42.0V) | 400A | 200A | 133A | 100A | 80A | 40A | 20A |

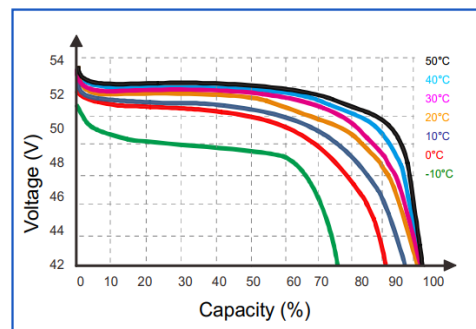
Constant Current Discharge Data (Amperes @ 25°C)

| Discharge Time | 1h | 2h | 3h | 4h | 5h | 10h | 20h |
|-------------------------|--------|--------|-------|-------|-------|-------|-------|
| Cut off voltage (42.0V) | 20480W | 10240W | 3412W | 5120W | 4096W | 2048W | 1024W |

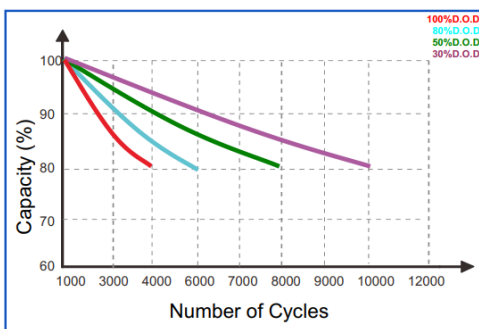
Discharge characteristics (25°C)



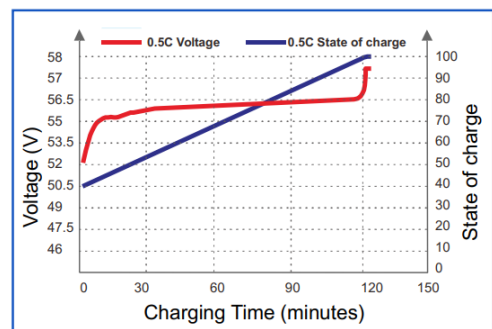
Different temperature Discharge curve (0.5C)



Discharge DOD discharge cycle life curve (0.2C, 25°C)



State of charge curve (0.5C, 25°C)



Note 1: Please always refer to the latest edition of our technical manual that published on our website to ensure safe and efficient operation.

Note 2: When make parallel connection, please full discharge batteries, then recharge after parallel connected; when series connect, please keep batteries with same remain capacity.