

CN series energy storage batteries



Introduce

TCSN CN series designed for different types of applications, such as small UPS, home energy storage, portable mobile power supply, which is the best choice of small capacity, long standby or cyclic use.

Features

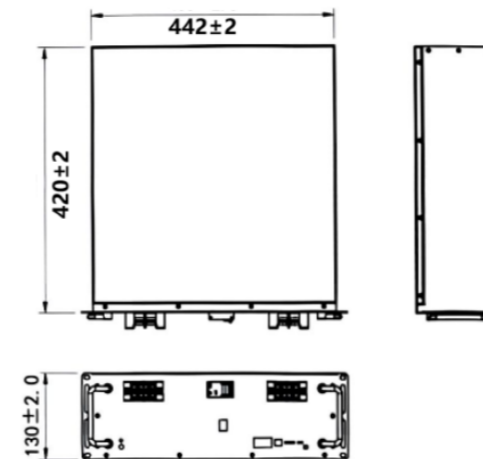
- Reliable and long-lasting**
 Cycle life: 6000 times (1C 80%DOD)
 Design life: 20 years
- Ultimate balance**
 Intelligent balanced management, with active/passive options available, ensuring high consistency of battery cells.
- Flexible parallel connection**
 The convenience of expansion
 Support for multiple units to be used in parallel
- Safe and worry-free**
 Using LFP batteries, ultra-safe batteries, multiple layers of protection are implemented at each system level.
- Lightweight design**
 Lightweight body design
 Supports bracket installation and standard 19-inch cabinet
- Function integration**
 Multi-protocol compatibility
 Support for multiple communication methods

Performance

| Model | CN51.2-100 |
|--------------------------------|----------------------|
| Performance | |
| Cell | Square LFP 100Ah |
| Terminal | M6 |
| IP Grade | IP21 |
| Self Discharge | <=2%/Month |
| Cycle Life | 6000times(1C 80%DOD) |
| Rec. Charge Current | 50A |
| Max. Charge Current | 100A |
| Rec. Charge Voltage | 54.4~55.2V |
| Charge Cut-off Voltage | 58.4V |
| Balancing Voltage | >54.4V |
| Rec. Discharge Current | 50A |
| Max. Discharge Current | 100A |
| Rec. Discharge Cut-off Voltage | 44.8V |
| Min. Discharge Cut-off Voltage | >40V |
| Short Circuit Current | Approx.500A |

| Performance parameters | |
|-------------------------|------------------------|
| Capacity | 100 Ah(0.5C@25°C) |
| Nominal Voltage | 51.2 V |
| Energy | 5120 Wh |
| Weight | 44 kg |
| Dimensions | 442*420*130mm |
| Communication interface | RS485/CAN |
| LCD Panel | Optional configuration |
| Storage Temp | -5°C to 35°C |
| Discharge Temp | -20°C to 55°C |
| Charge Temp | 0°C to 45°C |

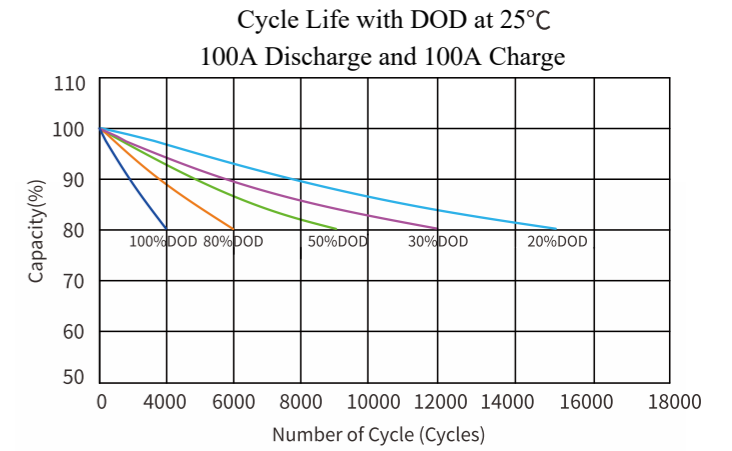
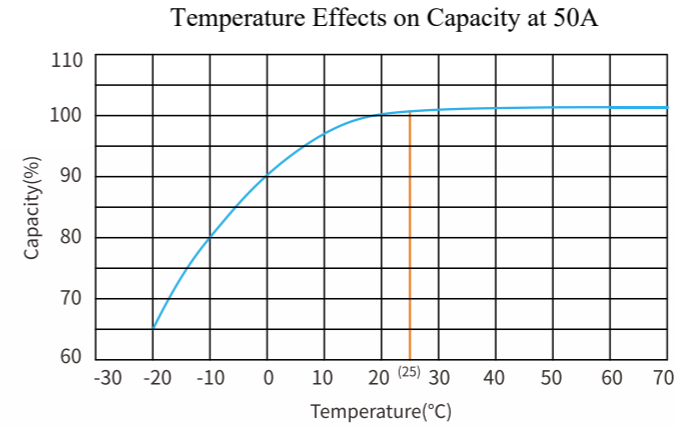
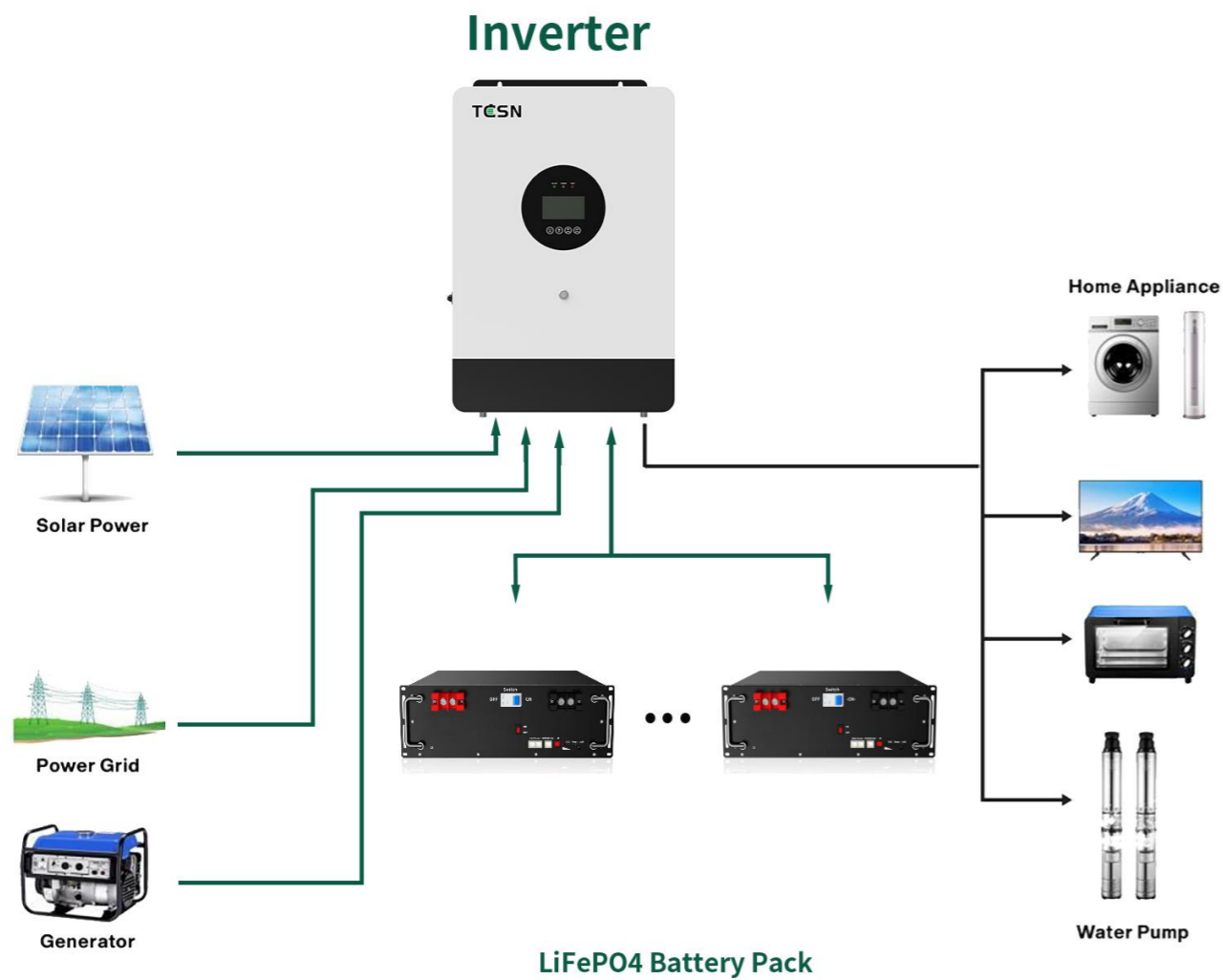
Size



Compliance

| | |
|---------------------|-----------------|
| Certifications | Cell UN38.3 |
| | Battery UN38.3 |
| Transport Appraisal | UN3480, CLASS 9 |

System Management Diagram



Cautions

1. Do NOT short circuit, crush or disassemble.
2. Do NOT heat or incinerate.
3. Do NOT immerse in any liquid.
4. Store at 50% capacity. Recharge every 3 months. The storage area should be clean, cool, dry and ventilated.
5. Disconnect charging source prior to connecting or disconnecting battery terminals.
6. Do not dispose of batteries in a fire as they can explode.
7. Do not open, alter, or mutilate batteries. Released electrolyte is harmful to skin and eyes. It may be toxic.
8. Do not mix different types and brands of lithium-ion batteries.
9. Do not dispose in trash, follow local regulations and manufacturer's instruction.
10. See installation instructions before connecting to the supply.
11. The battery cabinet receives power from more than one source. Disconnection of all DC sources is required to De-energize this unit before installing or servicing. Wait 5 minutes before opening the unit.
12. Do not install on or over combustible surfaces.
13. Refer to manual before servicing.
14. Do not touch bare terminals.

Characteristics Curve

