

# CN51.2-100 (51.2V100AH)

## TCSN Provides Safe and Efficient LFP Battery Solutions

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

### FEATURES

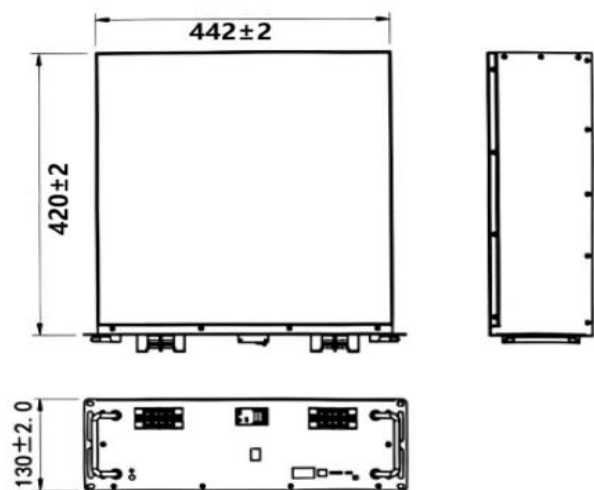
- Safest Lithium Battery Technology
- Lighter Weight
- Eco-friendly - DOD upto 100% Longer
- Life - 5.12kWhr Usable capacity
- Multiple Safety Protection Intelligent
- Balancing Function 20 Years Designed
- Service Life



### PERFORMANCE

Rated Power (kW)	5.12	Max. Charge Power (kW)	51.2	Max. Discharge Power (kW)	5.12
Cell	Square LFP 102Ah	Rated Charge Current	50A	Rated Discharge Current	50A
Terminal	M6	Max. Charge Current	100A	Max. Discharge Current	100A
IP Grade	IP20	Rated Charge Voltage	54.4~55.2V	Rated Discharge Cut-off Voltage	44.8V
Self Discharge	<=2%/Month	Maximum Operating Voltage	58.4V	Min. Operating Voltage	>40V
Cycle Life	6000times(80%DOD)	Balancing Voltage	>54.4V	Short Circuit Current	500A

### SIZE



### PERFORMANCE PARAMETERS

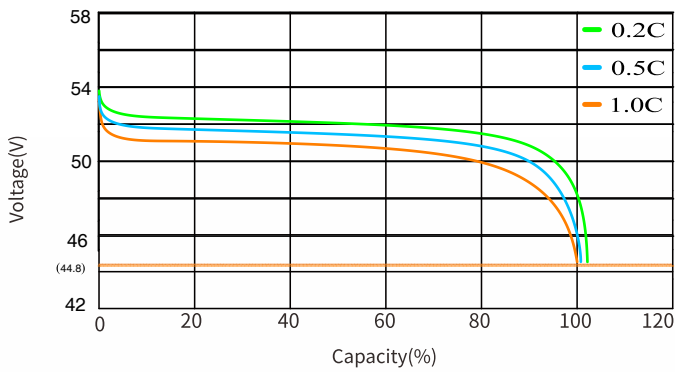
Capacity	100 Ah(0.5C@25°C)
Nominal Voltage	51.2 V
Energy	5120 Wh
Weight	42 kg
Dimensions	442* 420*130 mm
Storage Temp	-5°C to 35°C
Discharge Temp	-20°C to 55°C
Charge Temp	0°C to 45°C

### COMPLIANCE

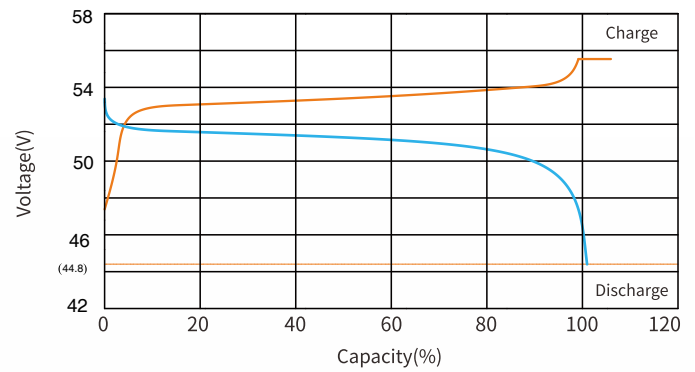
Certifications	Cell	CE/UN38.3/UL1973
	Battery	CE/UN38.3/IEC62619
Transport Appraisal	UN3480, CLASS 9	

## CHARACTERISTICS CURVE

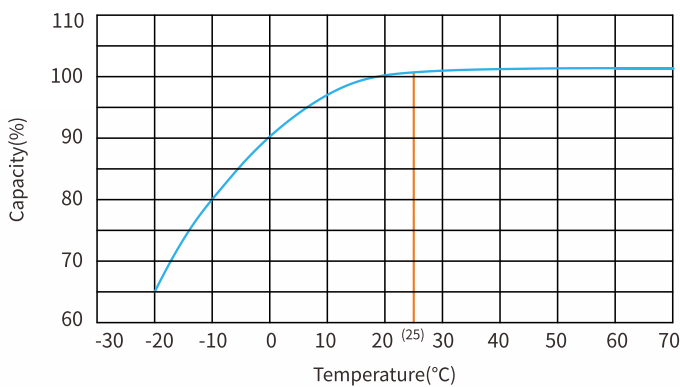
Discharge Performance at 25°C



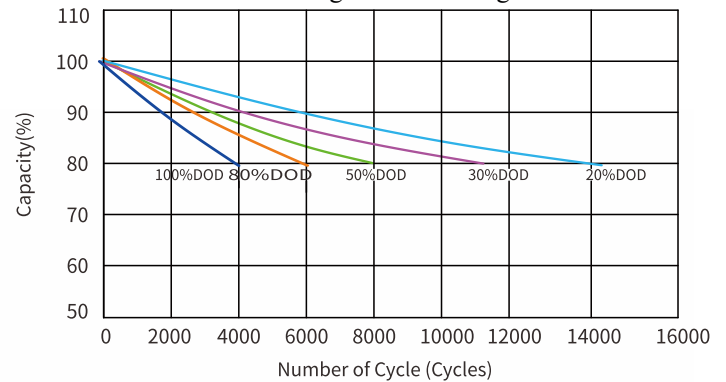
Charge and Discharge at 25°C, 0.5C



Temperature Effects on Capacity at 0.5C



Cycle Life with DOD at 25°C  
1C Discharge and 1C Charge



## 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.
15. Country of origin is China