

# GF series energy power batteries



## Introduce

TCSN GF series utilizes high-rate, long-life LFP batteries equipped with a built-in, high-quality BMS. Compared to lead-acid starter batteries, these lithium batteries offer superior performance and longevity; they weigh only 40% as much as their lead-acid counterparts and boast a service life more than double that of lead-acid batteries. Furthermore, they exhibit higher charge acceptance.

## Features



### Powerful Performance

High Instantaneous Current: Ascend and Descend with Effortless Ease  
Experience the Thrill of Gliding Over Flat Ground



### Safe and worry-free

Using LFP batteries ensures high safety, no fire, and no explosion.



### Worry-Free After-Sales Service

5-Year Standard Warranty  
Long-Lasting Protection — Extendable



### Hassle-free and Long-lasting

High Cycle Life  
Designed Lifetime: 20 Years



### Maintenance-free

No maintenance is required other than charging.



### High-Efficiency Fast Charging

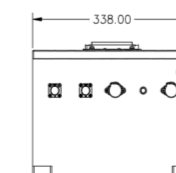
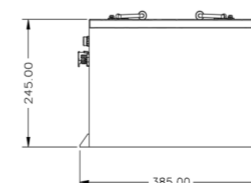
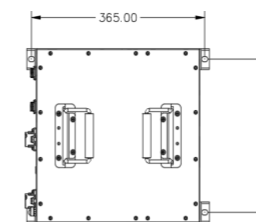
Supports 1C fast charging.  
Standard charging can fully charge the device within 2.5 hours.

## Performance

Model	Dubhe GF36-80
Performance	
Cell	Square LFP 80Ah
Terminal	M8
IP Grade	IP67
Self Discharge	<=2%/Month
Cycle Life	6000times(80%DOD)
Rated Charge Current	40A
Max. Charge Current	80A
Rated Charge Voltage	40.8~41.4V
Charge Cut-off Voltage	43.8V
Balancing Voltage	>40.8V
Rated Discharge Current	40A
Max. Discharge Current	80A
Rated Discharge Cut-off Voltage	33.6V
Min. Discharge Cut-off Voltage	>30V
Short Circuit Current	Approx.3000A

Performance parameters	
Capacity	80 Ah(0.5C@25°C)
Nominal Voltage	38.4V
Energy	3072Wh
Weight	~30kg
Dimensions	385*338*245mm
Communication interface	RS485/CAN/Bluetooth
LCD Panel	4.2-inch touch screen
Storage Temp	-5°C to 35°C
Discharge Temp	-20°C to 55°C
Charge Temp	0°C to 45°C

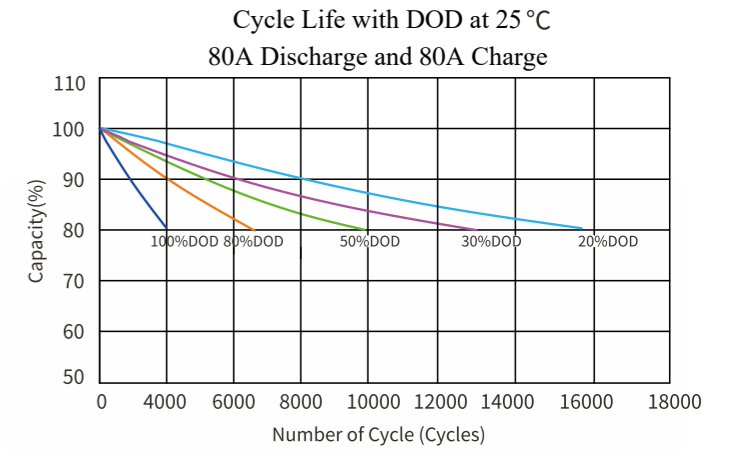
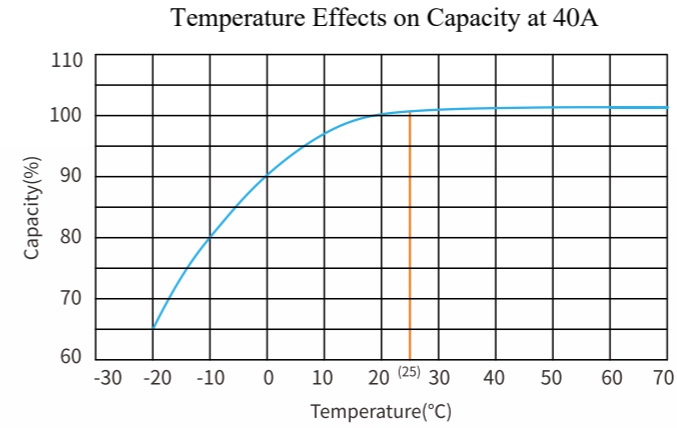
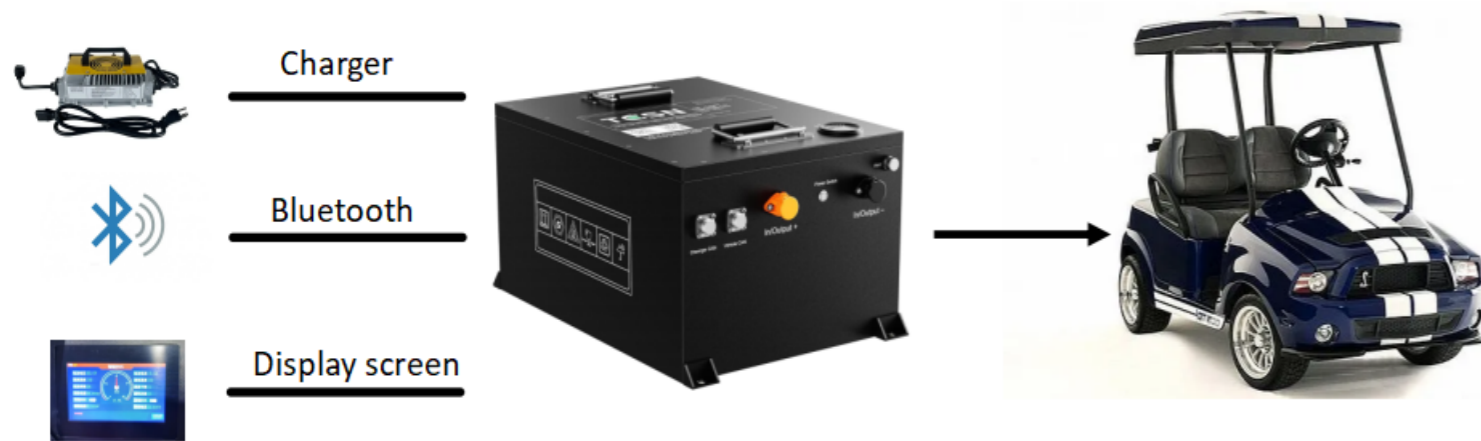
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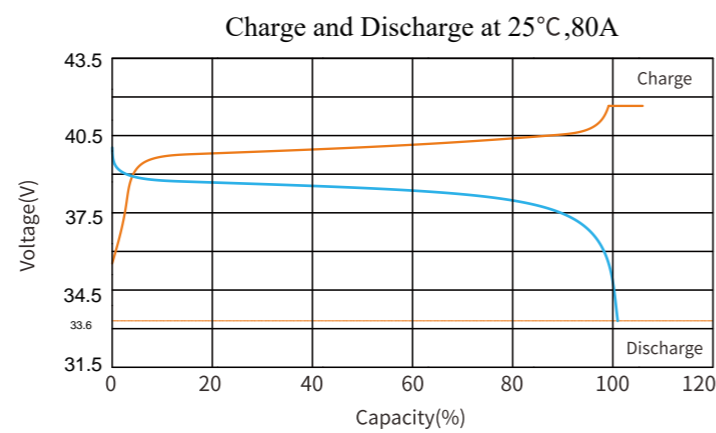
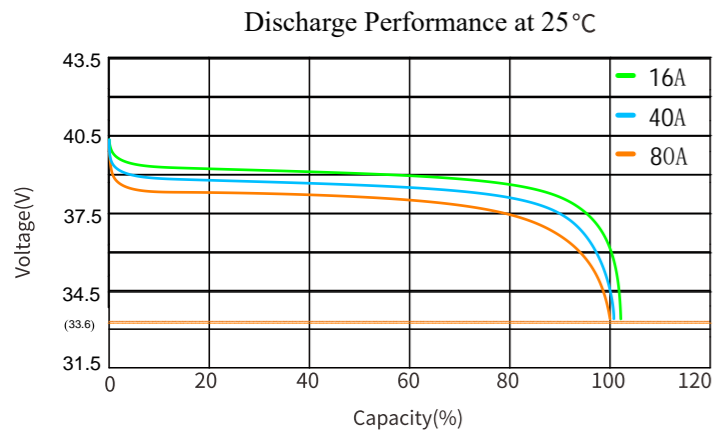
### Compliance

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

# System Management Diagram



# Characteristics Curve



# 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.