

SLPO48-200(LiFePO₄ 51.2V200AH Battery)

General Information

SLPO series is a LiFePO₄(lithium iron phosphate)battery pack for communications standby application. The battery pack adopts the advanced LiFePO₄ battery technology with the advantages of long cycle life, small size, lightweight, safety and environmental protection, and also has a strong environmental adaptability. It is ideal for harsh outdoor environments.

The battery pack integrates a smart battery management and monitoring module, support for remote centralized monitoring and remote battery management and maintenance, to satisfy the demands of unattended. Therefore, the SLPO series can fully meet the backup power supply requirements of the access network equipment, mobile communication equipment, transmission equipment, micro base station, and microwave communication equipment.



Key Features

※ **Super long cycle life**

Over 6000 cycle @ 80%DOD @ 25°C can be circularly used.

※ **Communication port**

Many different communication interfaces including 3 of dry contacts, RS232 and RS485, which can meet requirement of several packages to connect in parallel.

※ **Fast charge capability**

Very fast charging capability up to 50A.

※ **Low self discharge**

<1% per month @ 20°C.

※ **Long Life**

12 years design life @ 40°C.

※ **Completely maintenance-free**

Completely Maintenance-free throughout battery lifetime saves OPEX for the users.

※ **Intelligent Integrated Battery Manage System(BMS)**

Built-in BMS automatically protects internal cells from over-charge, over-discharge, over-temperature, short-circuit, etc. Ensure battery safety and reliability. Equalize and balance each cell. Prolong battery life. SOC-DOD-SOH reporting/setting device events, battery parameters, and storage, intelligent monitor, remote measure, remote communication, remote control.

※ **LCD status and alarm indication**

※ **In compliance with standard**

UN38.3, CE, IEC.

※ **High safety & stable performance**

No explosion and no fire under collision. No risk of leakage.

※ **Green environmental material**

Eco-friendly and nonpolluting, no acids or no hazardous and noxious substances (including lead, cadmium, mercury).

Application

§ UPS and Backup System
§ Telecommunication Base Station
§ Marine Transport and Fishing

§ Transmission and Distribution Backup
§ Wind Generator and Solar Power Energy Storage

§ Military Equipment
§ Electric Vehicles

Battery Group Specification

Cell	Model	GLFP27175207
	Capacity(0.5C)	100Ah
	Rated Voltage	3.2V
	Typical Impedance	≤0.7mΩ
	Battery Material	LiFePO ₄
BMS	Single Cell Over-charge Cut-off Voltage	3.75V
	Over-charge Release Voltage	3.45V
	Single Cell Under-discharge Cut-off Voltage	2.5V
	Discharge Release Voltage	2.8V
	Over-discharge Cut-off Current	> 105A
	Over-discharge Cut-off Current Delay	3s
	Short-circuit Protection	> 200A
	Condition for the Recovery of Over-current and Short-circuit	< 1ms Delayed 5s recovery
	Balance Current	80mA
	Balance Condition	3.5V
	Communication Proctol	RS485/CAN/RS232
Pack	Combination Method	16S2P
	Nominal Capacity	200Ah
	Nominal Voltage	51.2V
	Max. Charge Voltage	56.8V
	Discharge Cut-off voltage	40V
	Max. Charge Current	100A
	Max. Discharge Current	100A
	Standard Charging Current	50A
	Standard Discharge Current	50A
	Pack Impedance Standard	≤100mΩ
	Weight (Approx.)	88kg
	Max.Dimension (L*W*H) (mm)	483*580*220(5U)
	Cycle Life	6000 time @0.5C, 80% Capacity @25°C
	Operating temperature	Charge temperature 0°C~45°C
		Discharge temperature -20°C~60°C
		Storage temperature -20°C~45°C

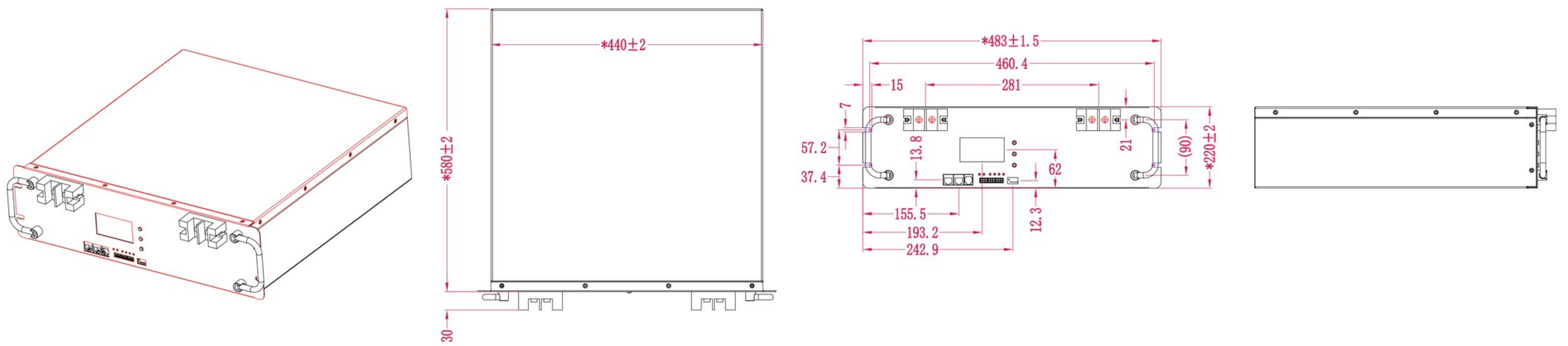
Cell - Constant Current Discharge (Amperes at 25°C/77°F)

Time	1h	2h	4h	6h	8h	10h
Current	200	100	50	33.2	25	20

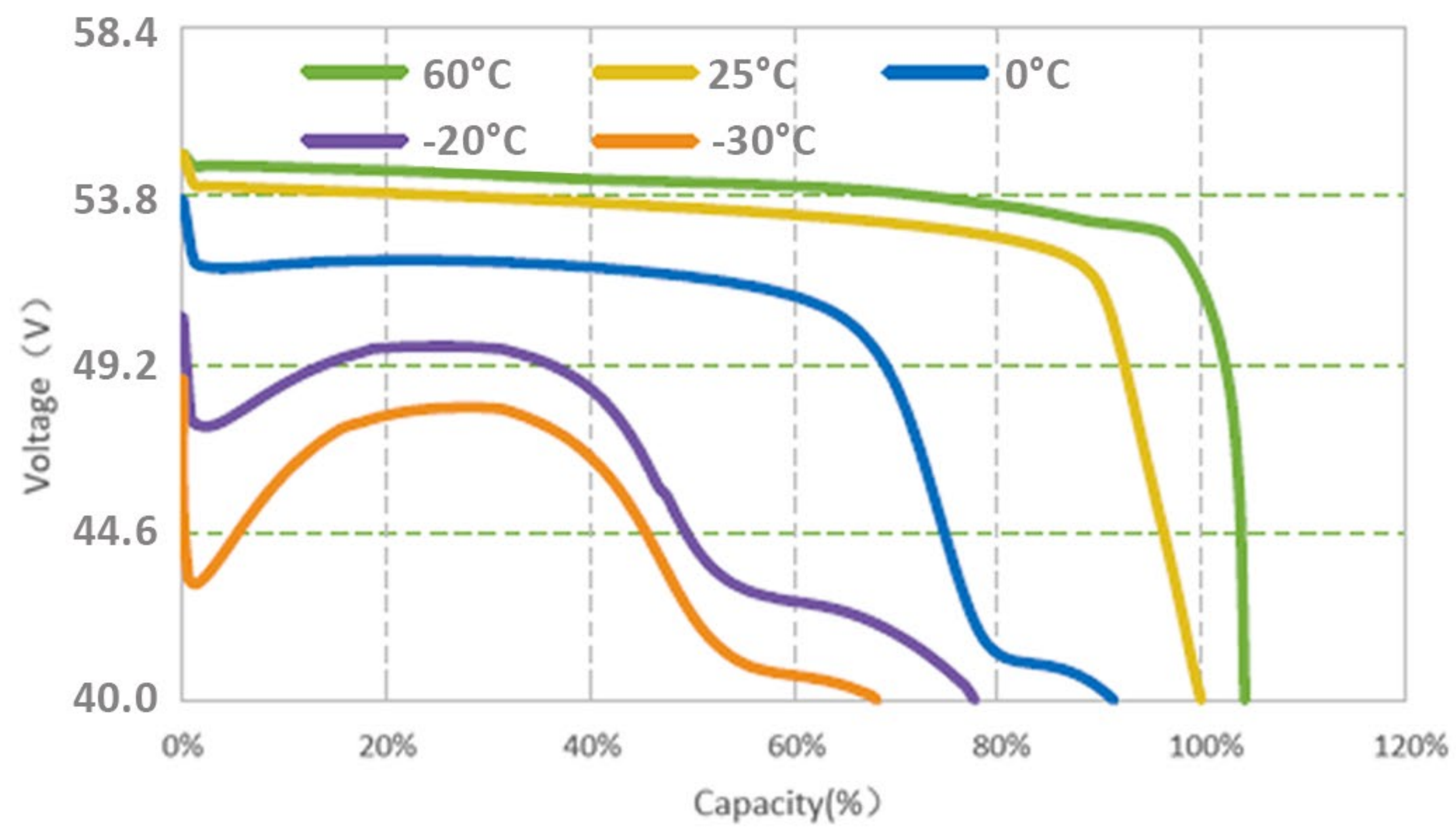
Cell - Constant Power Discharge (Watts per cell at 25°C/77°F)

Time	1h	2h	4h	6h	8h	10h
Watt	640	320	160	106.2	80	64

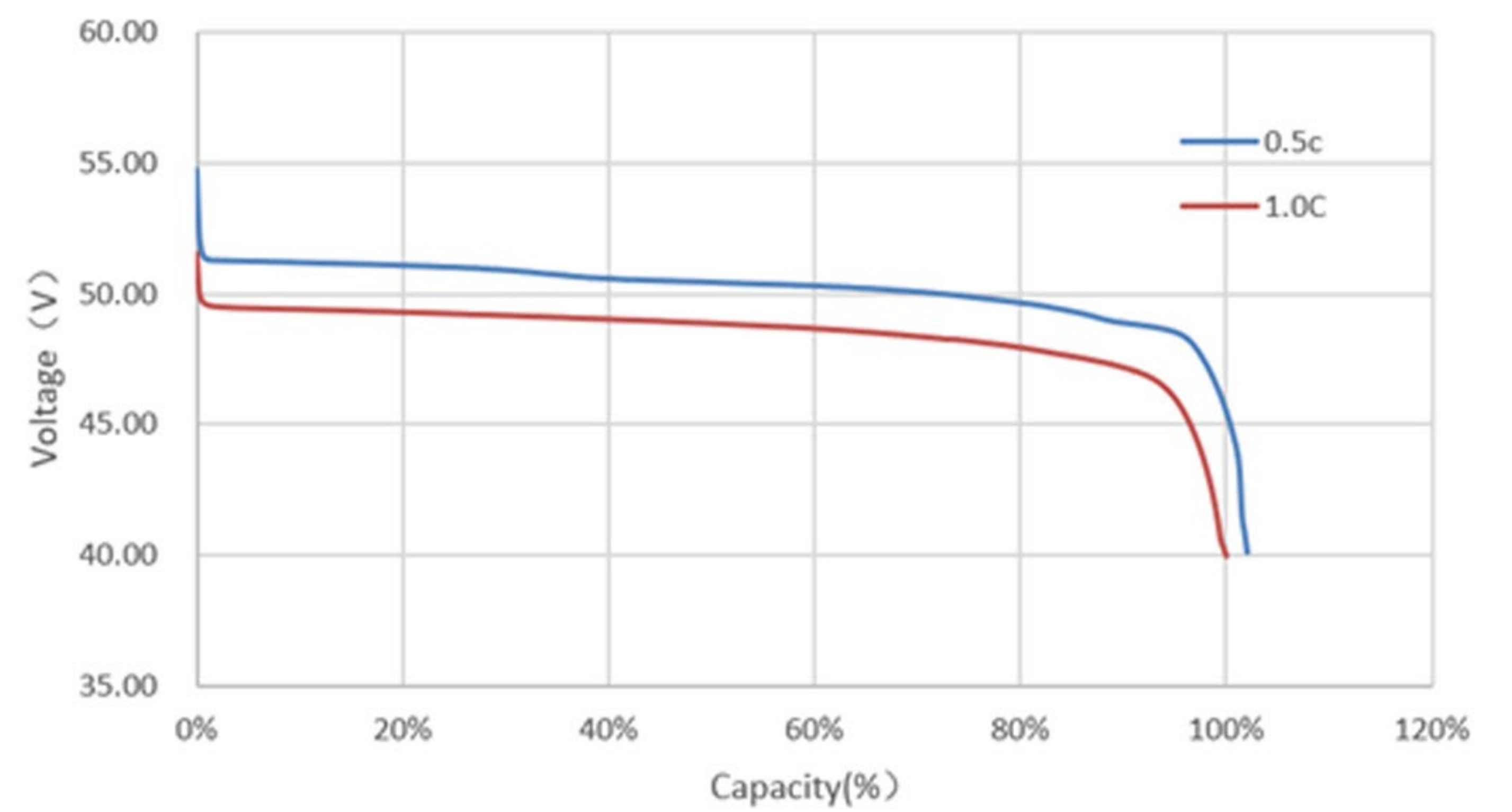
Dimension



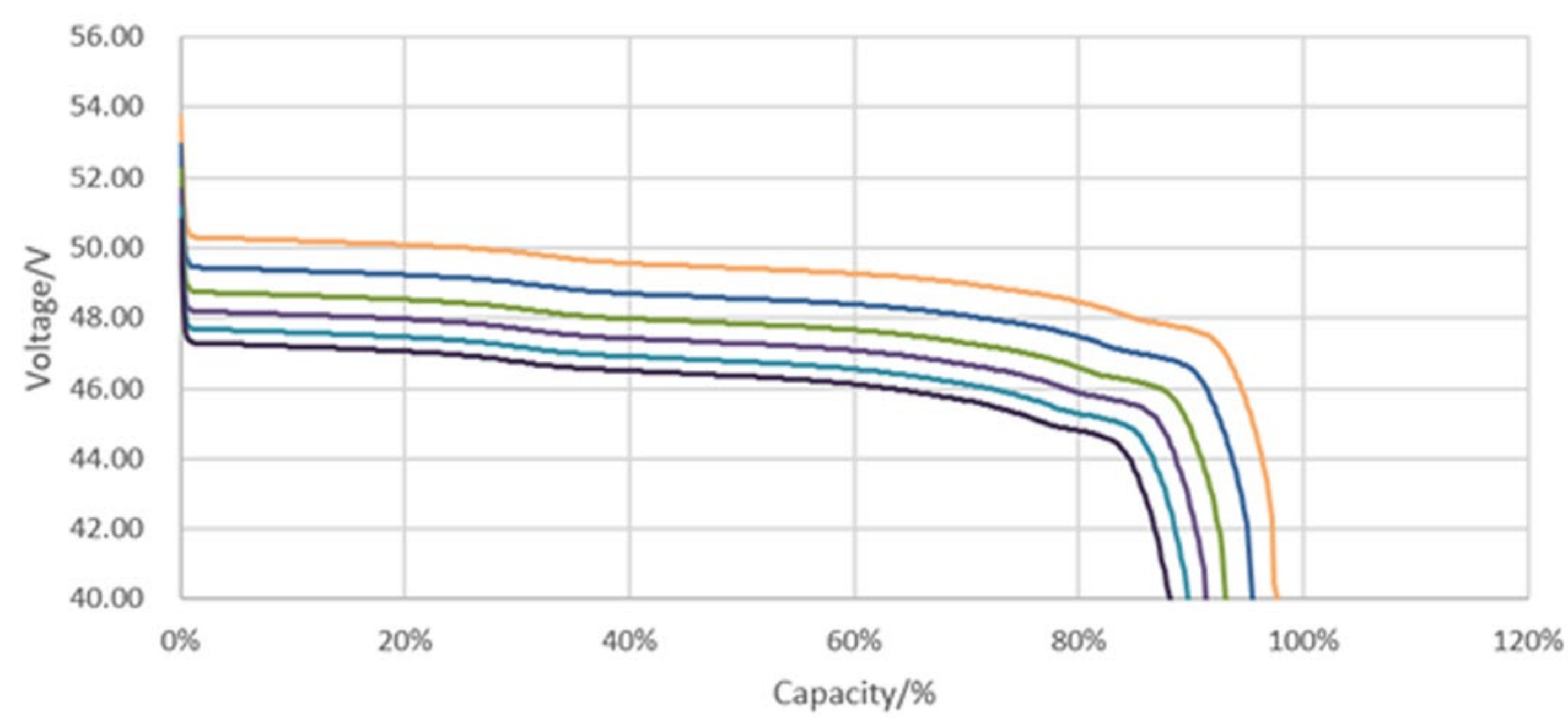
0.5C discharge curve at different temperatures (0.5C standard charge)



Discharge curve at different rates (0.5C standard charge)



80% DOD discharge curve after different cycles (0.5C standard charge)



0.5C charge and discharge cycle curve

