

SLPO12-100(LiFePO₄ 12.8V100AH Battery)

General Information

SLPO series is a LiFePO₄(lithium iron phosphate)battery pack for backup power 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.

Application

- § Camper, Caravan and Boat
- § Marine Transport and Fishing
- § Wind Generator and Solar Power Energy Storage



Key Features

- ※ **Super long cycle life**
Over 6000 cycles at 80%DOD can be circularly used.
- ※ **Fast charge capability**
Very fast charging capability up to 50A.
- ※ **Low self discharge**
<1% per month at 25°C.
- ※ **Long Life**
10 years design life at 25°C.
- ※ **Green environmental material**
Eco-friendly and nonpolluting, no acids or no hazardous and noxious substances (including lead, cadmium, mercury).
- ※ **Communication port**
Two USB interfaces with 5V output can meet the needs of charging smart products such as mobile phones and iPads.
- ※ **LED display is available**
LED display can show voltage, temperature, etc information.
- ※ **In compliance with standard**
UN/NOT 38.3, CE, IEC.
- ※ **High safety & stable performance**
No explosion and no fire under collision. No risk of leakage.
- ※ **Completely maintenance-free**
Completely Maintenance-free throughout battery lifetime saves OPEX for the users.

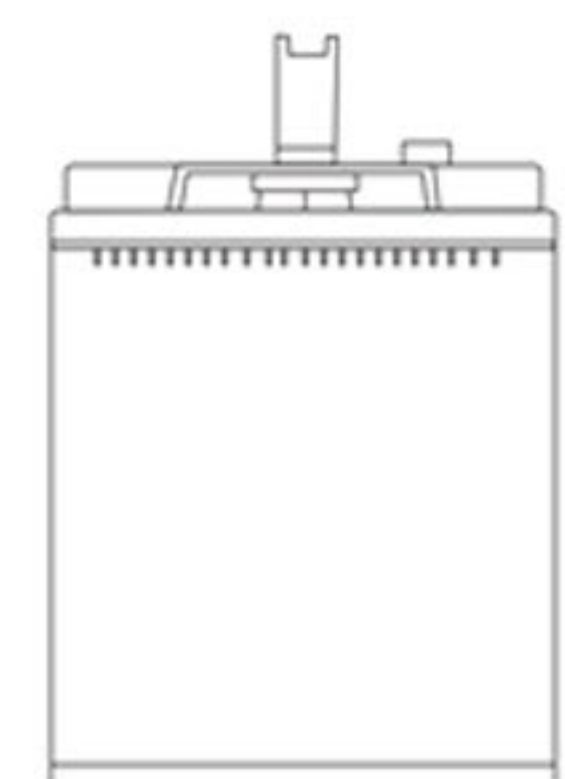
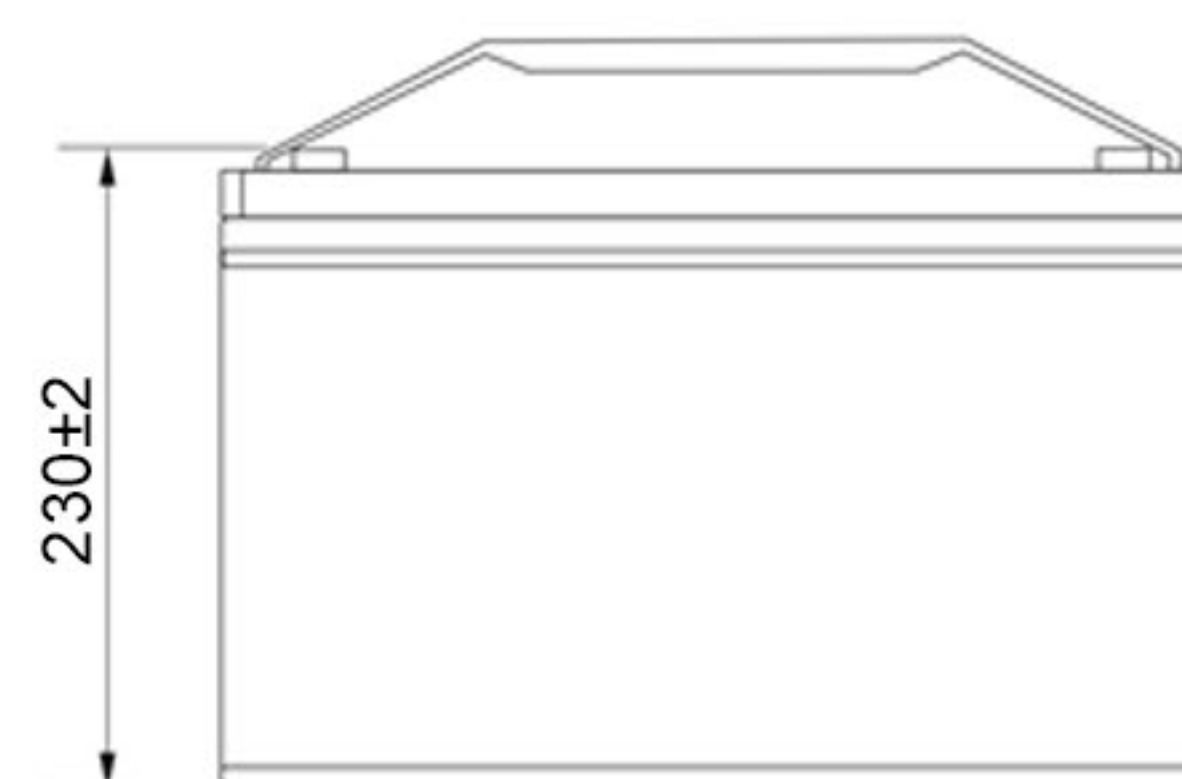
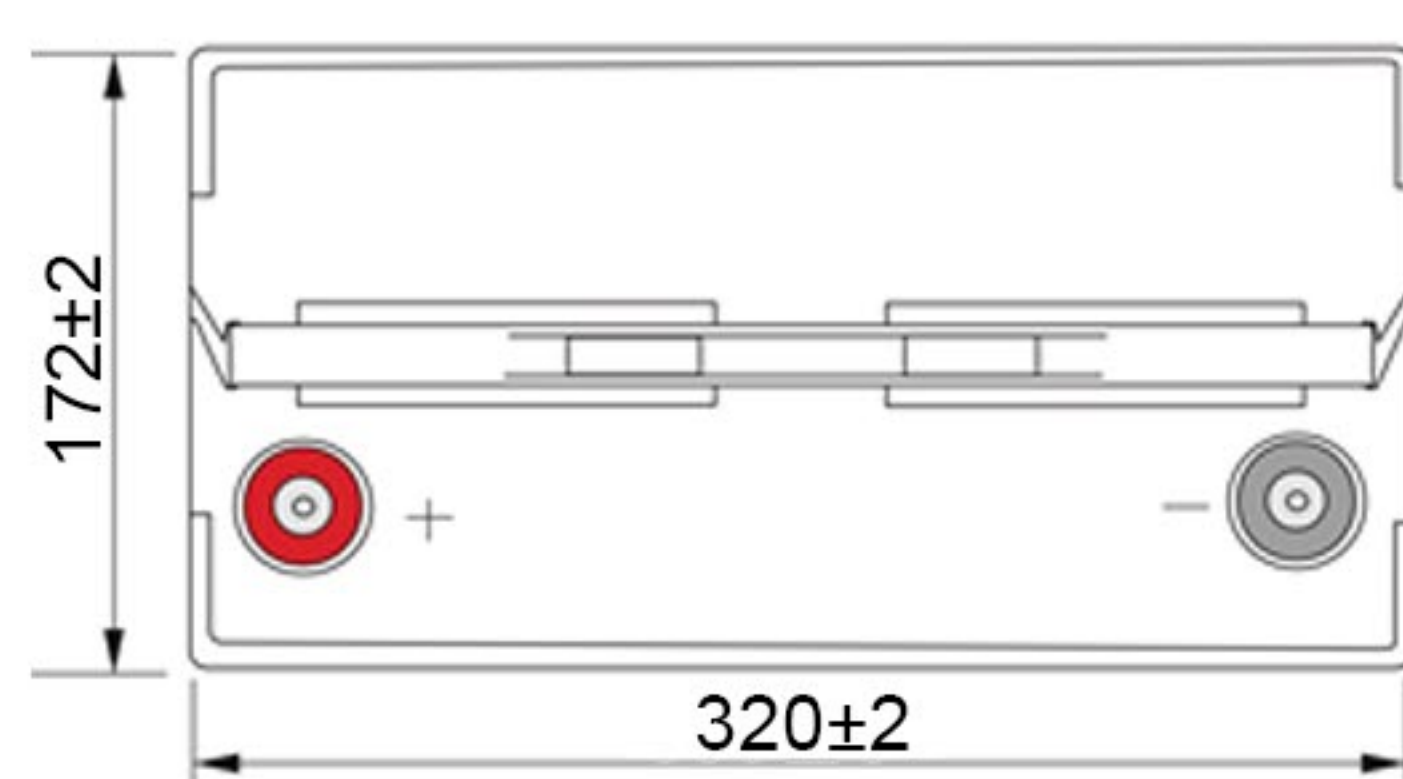
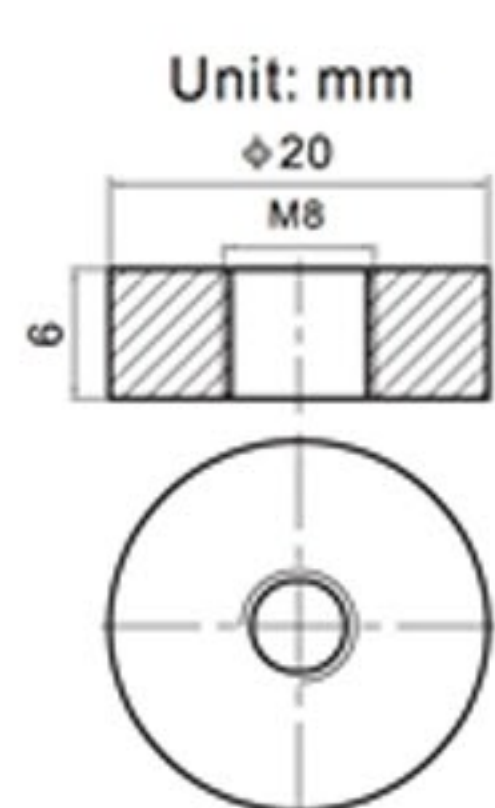
Specification

Weight	Approx.12Kg
Dimensions	320(L)*172(W)*230(H) mm
Nominal voltage	12.8V
Nominal capacity	100Ah
Nominal energy	1.28Kwh
Service life	≥6000 cycles, more than 80% at 0.5C charge and 0.5C discharge at 80% DOD 25°C.
Self-discharge	<1%/M
Charging	100A Max
Discharging	100A Max
Charging voltage	14.4±0.2V
Charging mode	Step 1: 0.5CC charge to 14.4V; Step 2: CV (constant voltage 14.4V) charge till charge current decline to 0.05C.
Peak discharge current	100A
DOD discharge rate	100%

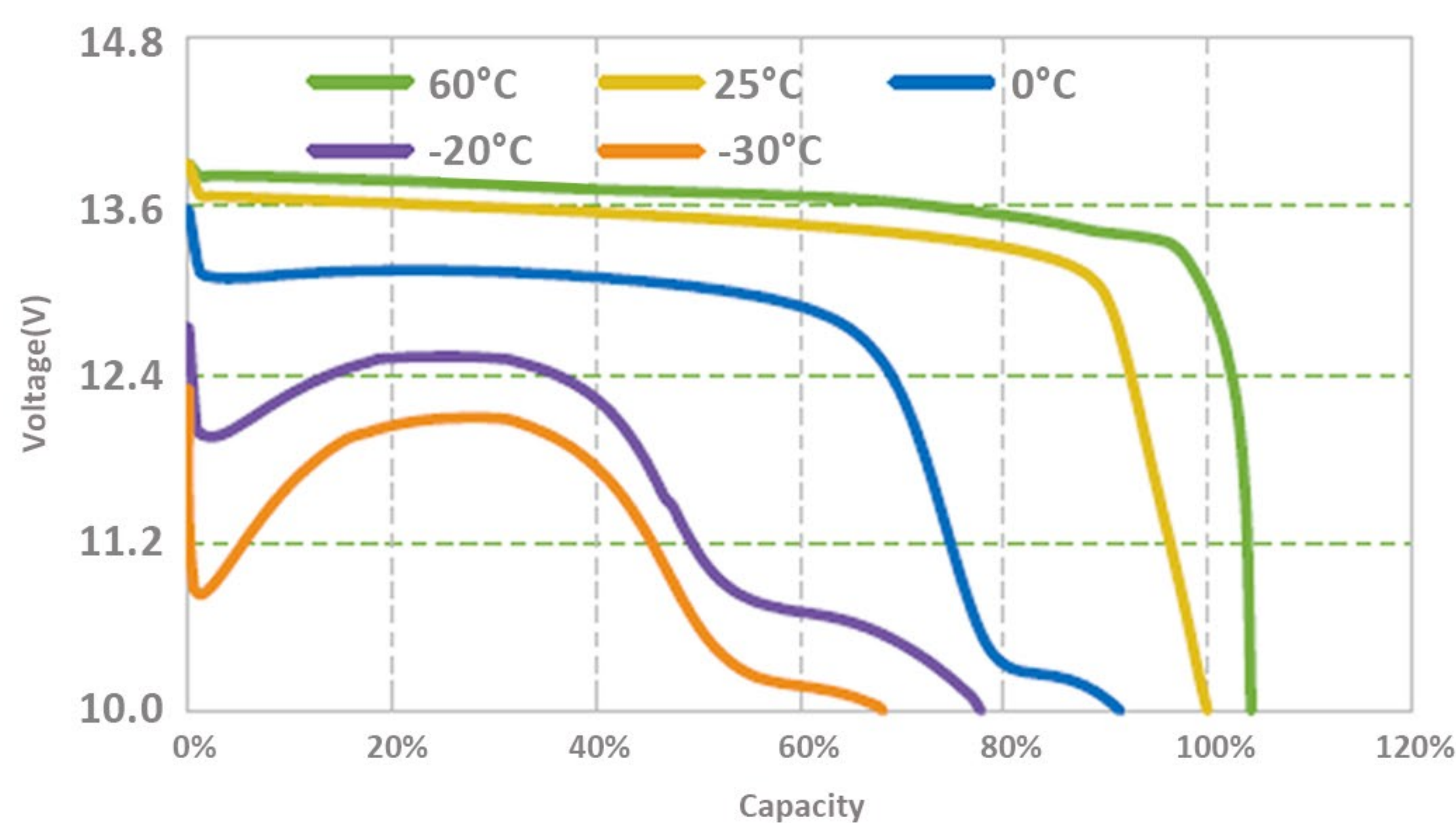
Specification

Charging operating temperature	0~45°C
Discharge operating temperature	-20~55°C
Storage temperature and humidity range	1 month: -20~45°C; 3 months: -10~45°C; 6 months: 0~25°C; Humidity:45%~90% RH The battery should cycle once in three months. Recommended storage temperature is 25±5°C of SOC 50%~60%.
Degree of protection	IP54 or above
Installation	Battery compartments
Constant current discharge	100A
Constant power discharge	1000W
Constant power discharge (Cell)	320W
Pack initial internal impedance	≤100mΩ (50% SOC, Measure the AC impedance at 1kHz)

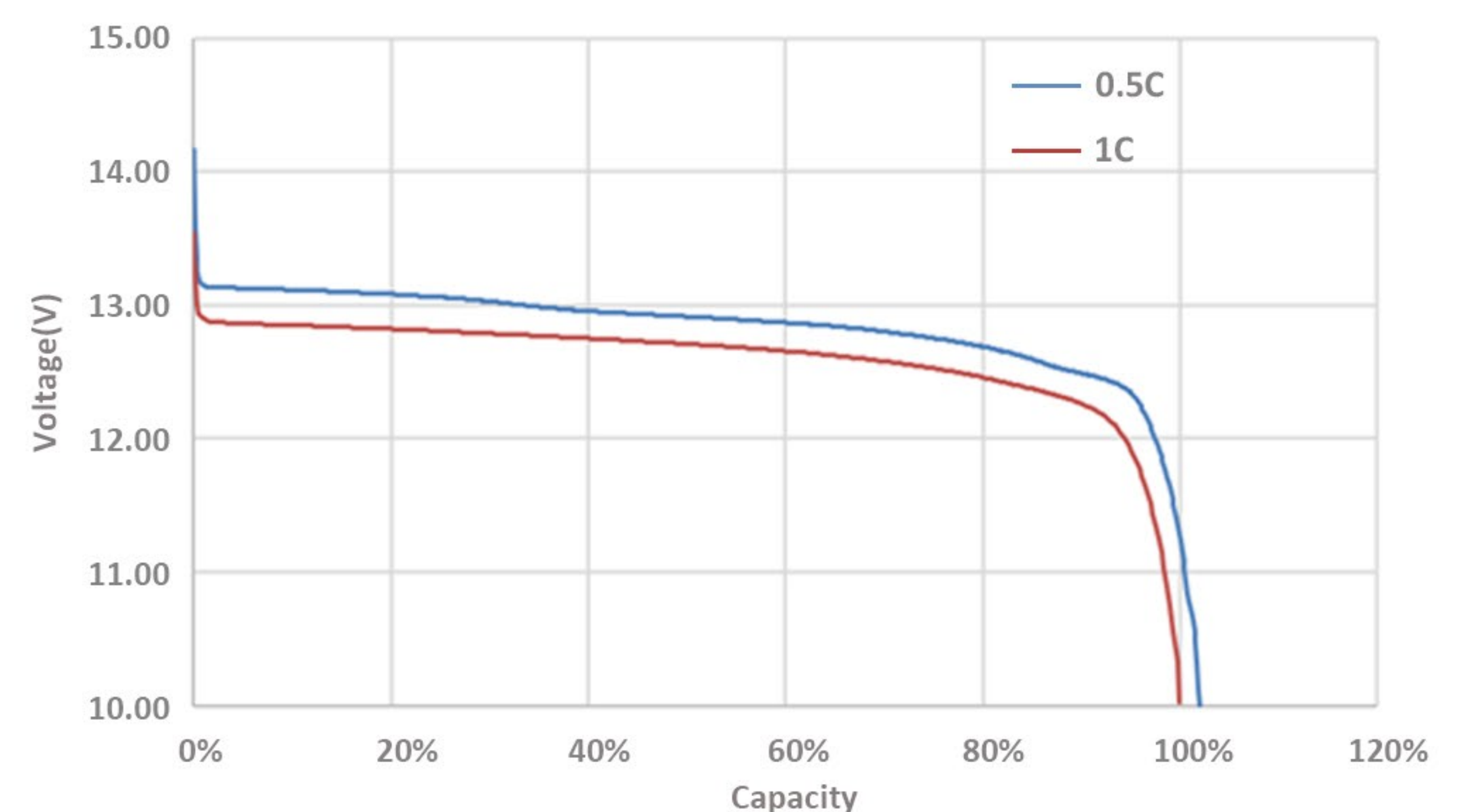
Dimension



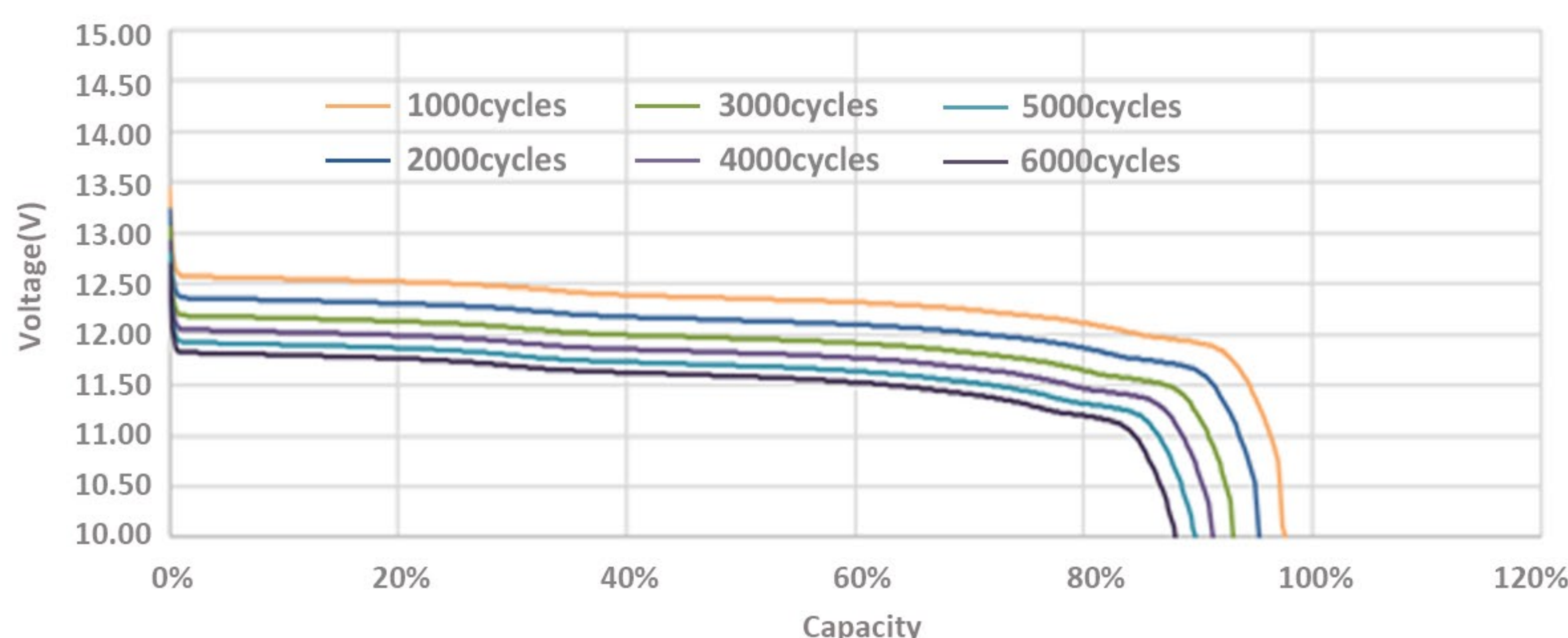
0.5C discharge curve at different temperatures (0.5C standard charge)



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

