

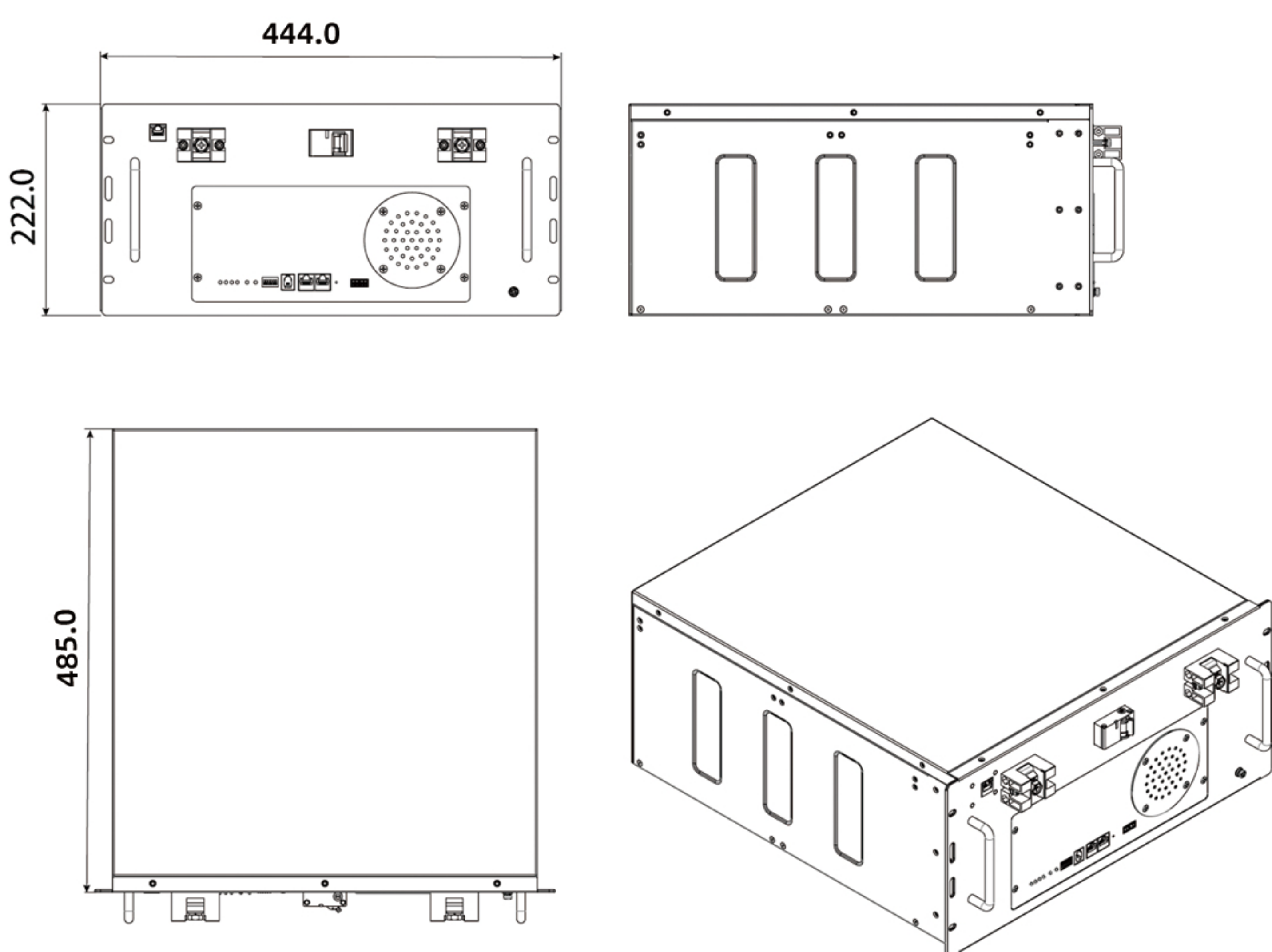
Lithium Battery Module

▶ VT48200B

Intelligent lithium battery, integrated with self-designed BMS, developed and produced by Vestwoods can be widely used in various telecom and energy storage system such as indoor distribution stations, integrated base stations, edge stations, micro-cell stations, FTTX equipment, distributed power supply, standby and deep cycle ESS

Key Features

- High quality LFP cells from leading company
- Super energy density ≥ 118 Wh/kg
- High rate charge/discharge current 100 A
- Long design life up to 15+ years @ 25°C
- High Efficiency between charge and discharge
- SOC/SOH dynamic updating
- CAN/Modbus/SNMP V2/SNMP V3 (optional)
- Multiple protection methods based on patented BMS
- Anti-theft solutions available



Specifications

Item	15S	16S
Nominal Capacity	200 Ah	200 Ah
Nominal Voltage	48 V DC	51.2 V DC
Rated Charge Voltage	54 V	57.6 V
Max. Continuous Charge Current	100 A	100 A
Discharge Cut-off Voltage	42 V	44.8 V
Max. Continuous Discharge Current	100 A	100 A
Temperature Range of Charge	0 °C~60 °C	0°C~60 °C
Temperature Range of Discharge	-20°C ~60 °C	-20°C ~60 °C
Allowed Humidity Range	$\leq 95\%$ RH	$\leq 95\%$ RH
Weight	Approx.81 kg	Approx.84 kg
IP Protection Level	IP 20	IP 20
Dimensions (W*D*H)	444*485*222±2	444*485*222±2
Certificates	ISO9001,ISO14001,ISO45001,UL1642,CE-EMC,UN38.3	

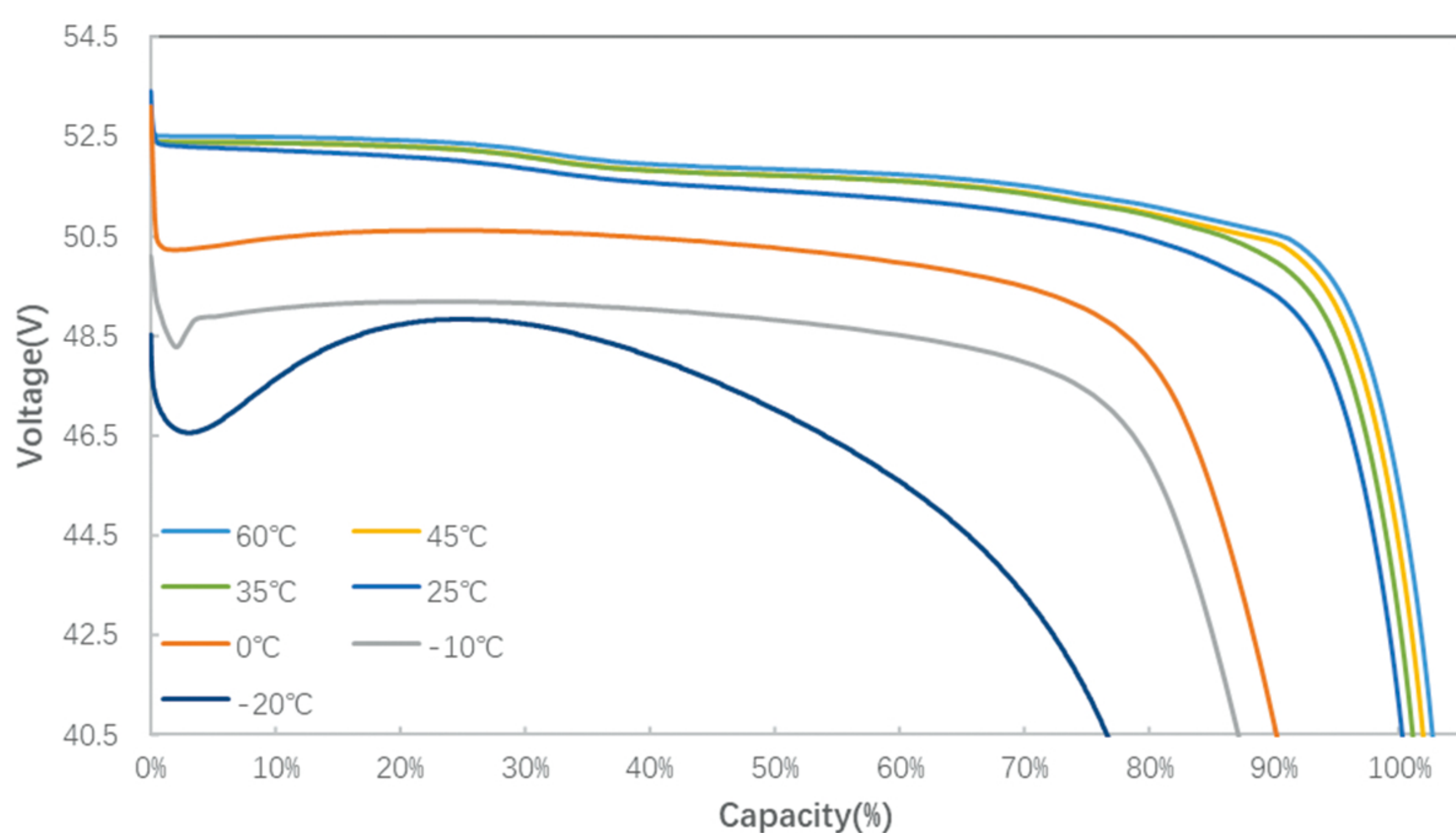
Discharge data with constant current/25°C

Time/h \ Current/A	0.1C	0.2C	0.3C	0.4C	0.5C
46.5 V	9.62	4.71	3.08	2.28	1.75
45 V	9.82	4.88	3.22	2.36	1.87
43.5V	10.13	4.98	3.29	2.43	1.94
42 V	10.28	5.08	3.37	2.49	1.96
40.5 V	10.44	5.10	3.39	2.53	2.02

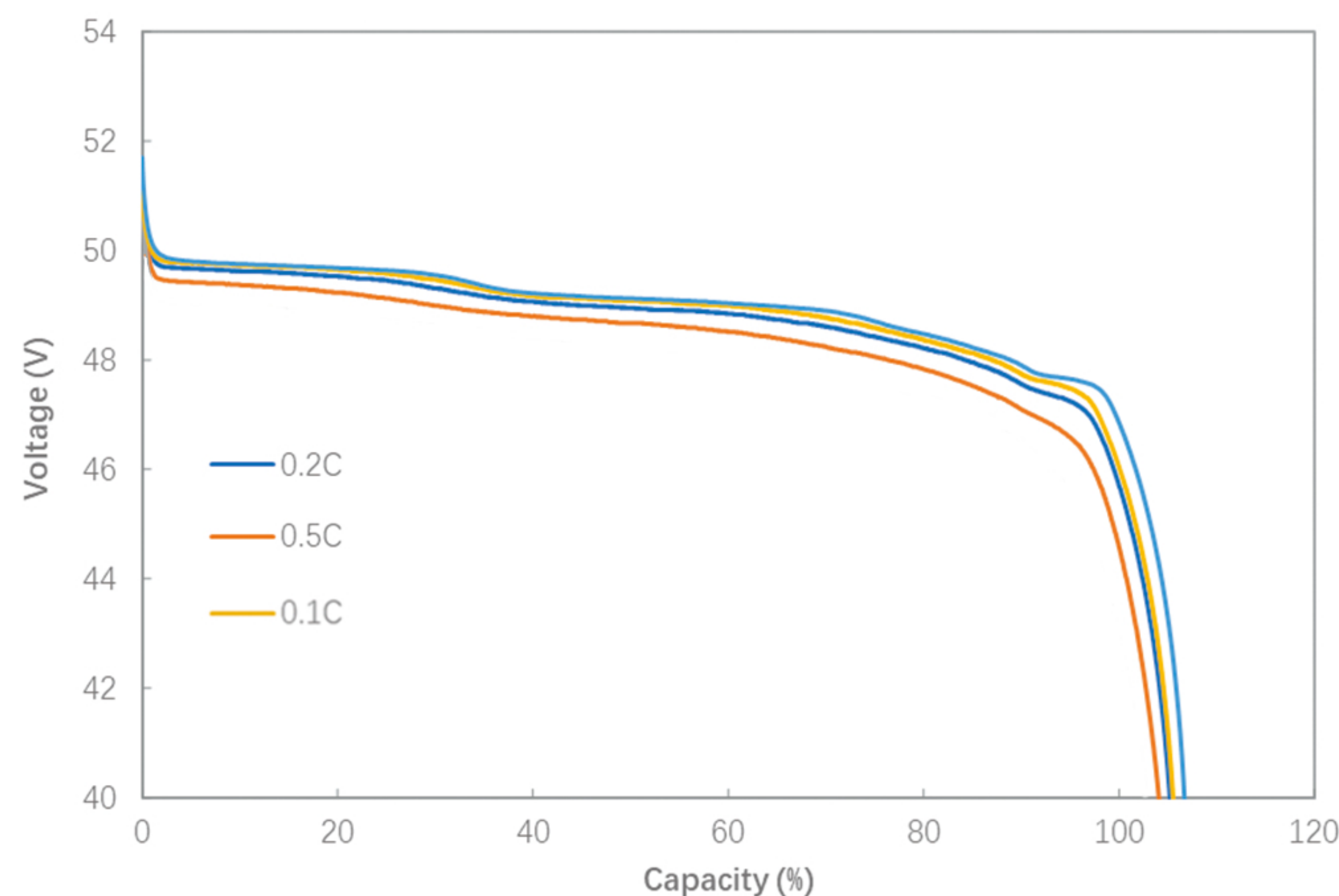
Discharge data with constant power/25°C

Time/h \ Power/W	480	1920	2880	3840	4800
46.5 V	9.42	4.70	3.04	2.26	1.70
45 V	9.75	4.86	3.18	2.35	1.82
43.5V	9.97	4.96	3.26	2.42	1.91
42 V	10.26	5.06	3.35	2.48	1.94
40.5 V	10.36	5.08	3.37	2.5	1.97

Discharge Curves



Voltage vs. Discharge Capacity Percentage under different temperature



Voltage vs. Capacity Percentage with different constant current rate