



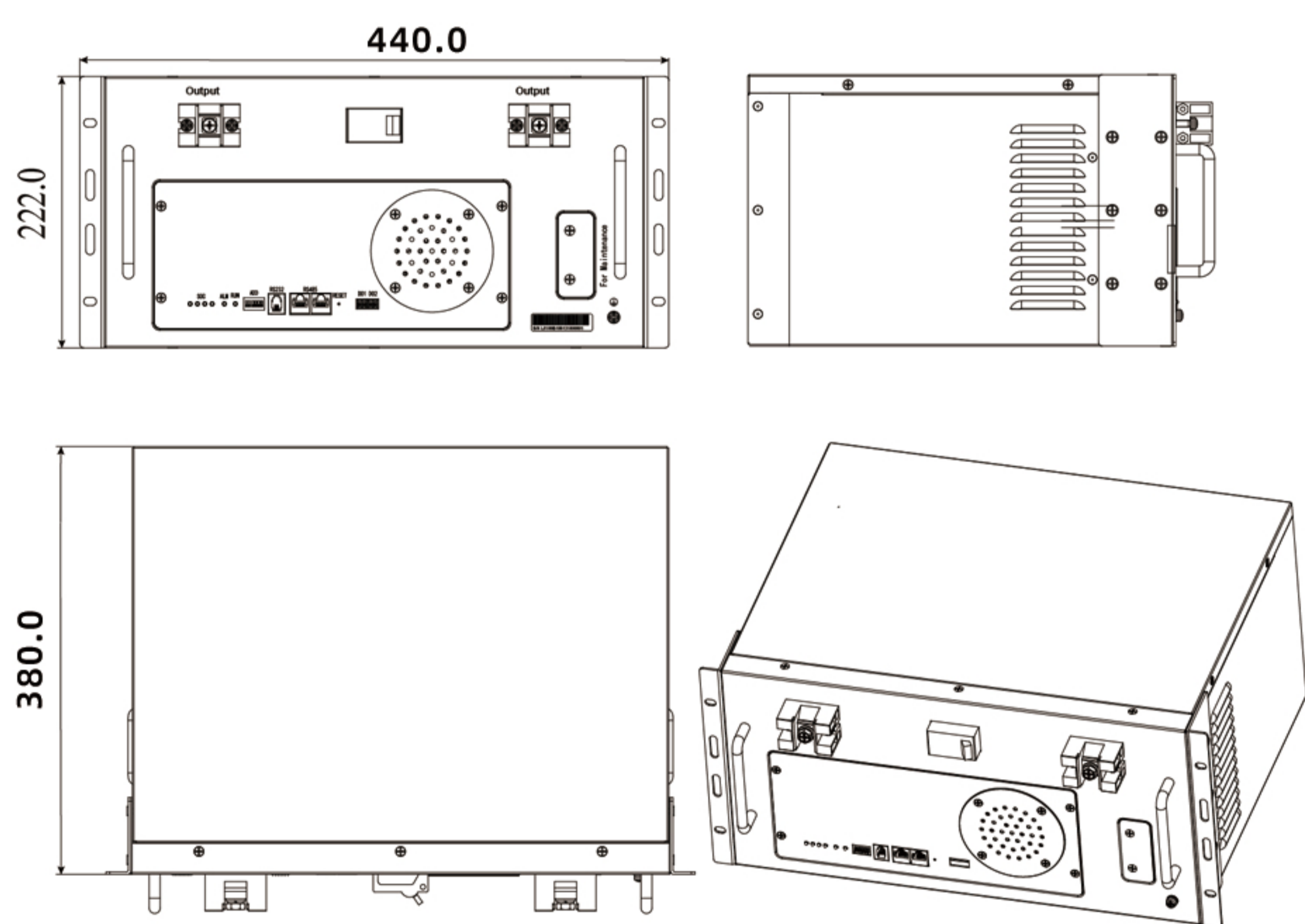
Lithium Battery Module

▶ VT48100B

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 ≥ 103 Wh/kg
- High rate charge/discharge current @1C
- 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	Value
Nominal Capacity	100 Ah
Nominal Voltage	48 V DC
Rated Charge Voltage	54 V
Max. Continuous Charge Current	100 A
Discharge Cut-off Voltage	42 V
Max. Continuous Discharge Current	100 A
Temperature Range of Charge	0 °C~60 °C
Temperature Range of Discharge	-20 °C~60 °C
Allowed Humidity Range	$\leq 95\%$ RH
Weight	Approx.46.5 kg
IP Protection Level	IP 20
Dimensions(W*D*H)	440*380*222±2
Certifications	ISO9001,ISO14001, ISO45001,CE-EMC,UN38.3, UL1642

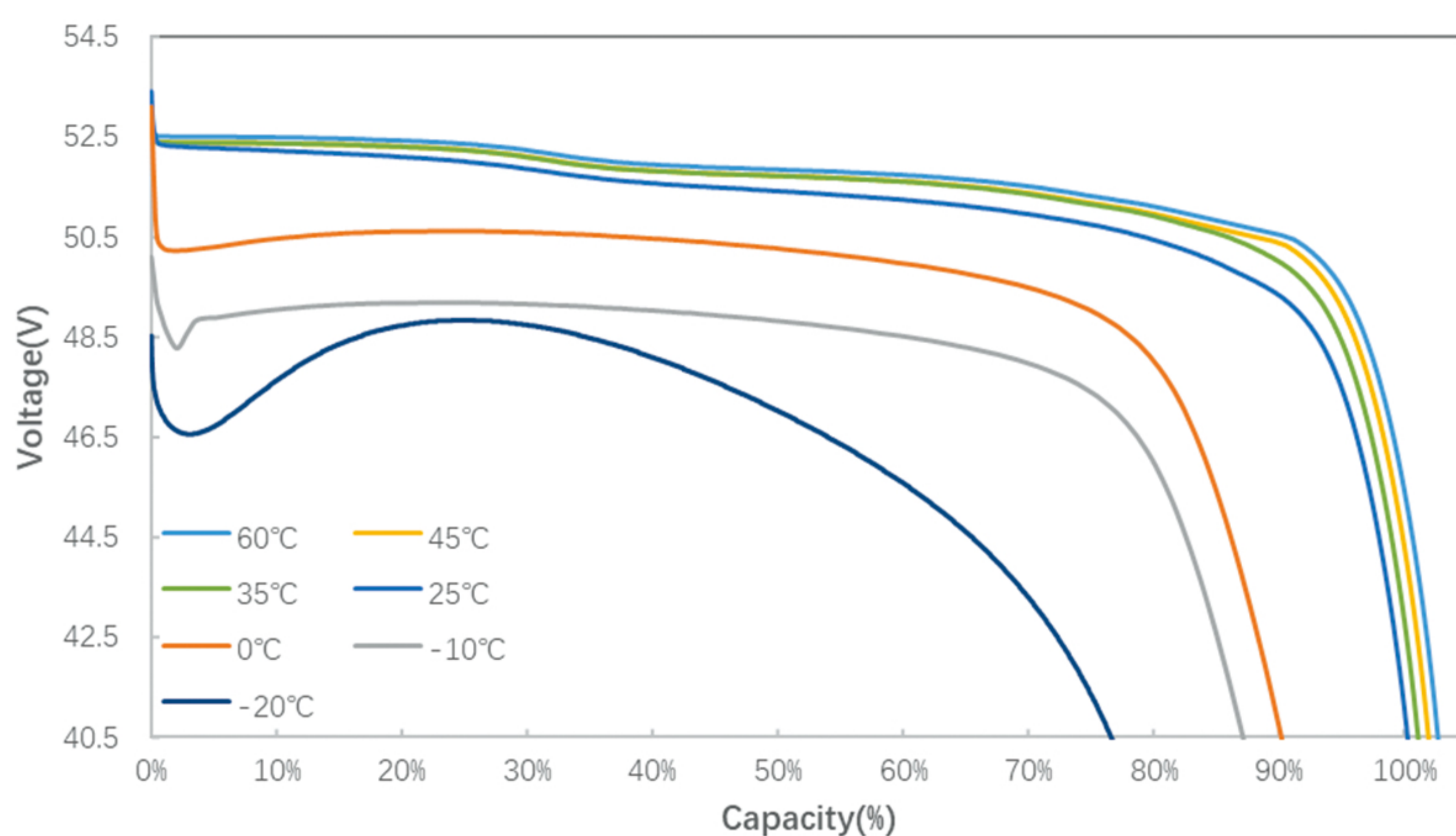
Discharge data with constant current/25°C

Time/h End Voltage/V	Current/A							
	0.1C	0.2C	0.3C	0.4C	0.5C	0.6C	0.8C	1C
46.5 V	10.12	4.83	3.15	2.31	1.82	1.48	1.02	0.85
45 V	10.33	4.91	3.25	2.42	1.91	1.58	1.13	0.92
43.5V	10.42	4.97	3.28	2.45	1.95	1.61	1.19	0.96
42 V	10.51	5.08	3.32	2.47	1.99	1.63	1.21	1.01
40.5 V	10.58	5.1	3.33	2.48	2.00	1.64	1.22	1.02

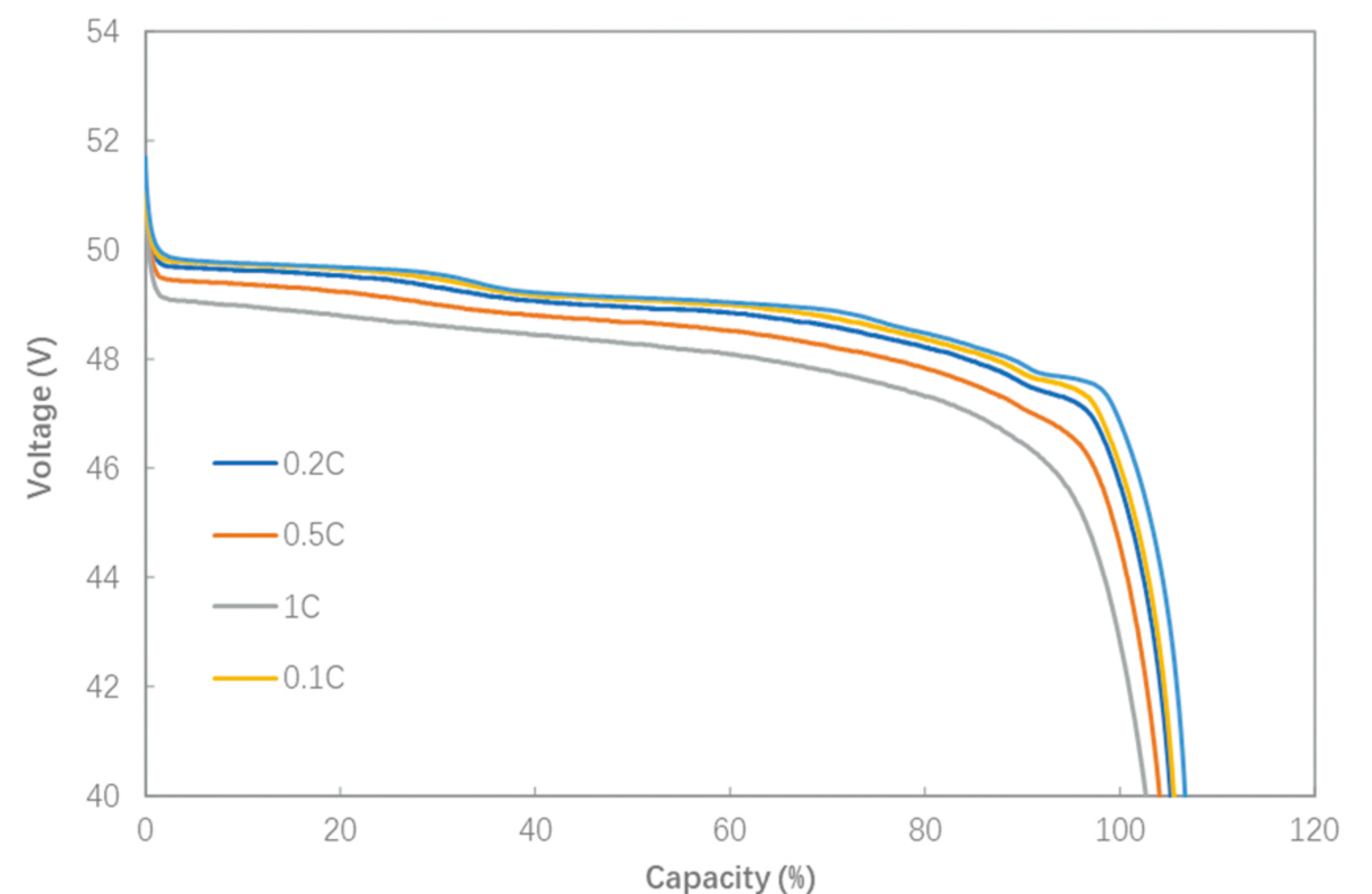
Discharge data with constant power/25°C

Time/h End Voltage/V	Power/W							
	480	960	1440	1920	2400	2880	3840	4800
46.5 V	10.11	4.82	3.13	2.29	1.81	1.47	1.02	0.84
45 V	10.31	4.9	3.22	2.41	1.89	1.57	1.11	0.91
43.5V	10.39	4.96	3.27	2.44	1.93	1.59	1.18	0.95
42 V	10.48	5.07	3.31	2.46	1.97	1.62	1.21	1.01
40.5 V	10.56	5.09	3.32	2.47	2.0	1.63	1.22	1.02

Discharge Curves



Voltage vs. Discharge Capacity Percentage under different temperature



Voltage vs. Capacity Percentage with different constant current rate