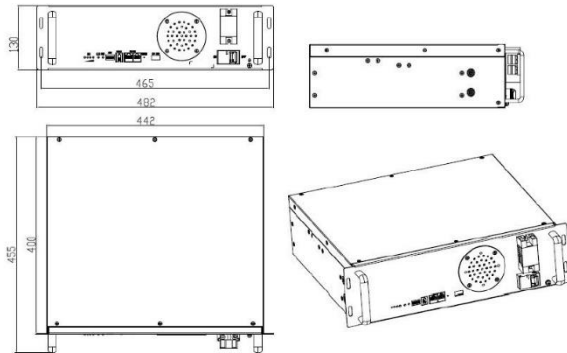


Lithium Battery Pack

▶ VT48100E-A2

Intelligent lithium battery, long cycle times, integrated with self-designed BMS which can be widely used in various telecom and energy storage systems such as indoor distribution stations, integrated base stations, edge stations, micro-cell stations, FTTE equipment, distributed power supply, standby.



▶ Key Features

- Cycle time ≥ 8000 @ 80% DoD, 35°C
- High quality LFP cells
- High rate charge/discharge current @ 100A
- Long design life up to 20+ years @ 25°C
- High efficiency between charge and discharge
- Modbus/SNMPV2/SNMPV3 (optional)
- Multiple protection methods based on patented BMS
- Intelligent anti-theft solution (optional)

Nominal Capacity	100Ah @ 0.2C, 25°C
Nominal Voltage	51.2 VDC
Rated Charge Voltage	56.4 V
Max. Continuous Charge Current	100A @ 25°C
Discharge Cut-off Voltage	43.2 V
Max. Continuous Discharge Current	100A @ 25°C
Temperature Range of Charge	0°C ~ 60°C
Temperature Range of Discharge	-20°C ~ 60°C
Recommended Temp Range	15-35°C
Allowed Humidity Range	$\leq 95\%$ RH
Weight	Approx. 42 kg
Dimension (W*H*D)	442*130*400 mm
Cycle Time	8000+ @ 80% DoD, 35°C
	IP 20

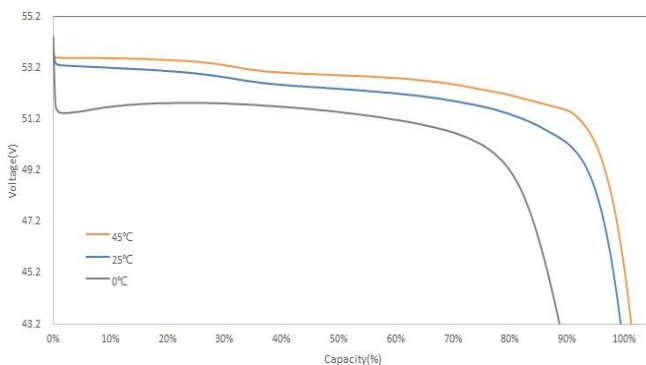
Discharge data with constant current/25°C

Time/h	0.1C	0.2C	0.3C	0.4C	0.5C	0.6C	0.8C	1C
Endvoltage/V	Hours							
49.6V	9.43	4.60	3.05	2.30	1.67	1.37	0.88	0.68
48.0V	9.77	4.78	3.20	2.33	1.82	1.53	1.10	0.87
46.4V	10.00	4.88	3.28	2.43	1.93	1.57	1.18	0.94
45.0V	10.18	5.00	3.35	2.46	1.98	1.65	1.22	0.97
43.2V	10.30	5.15	3.40	2.54	2.00	1.67	1.24	1.00

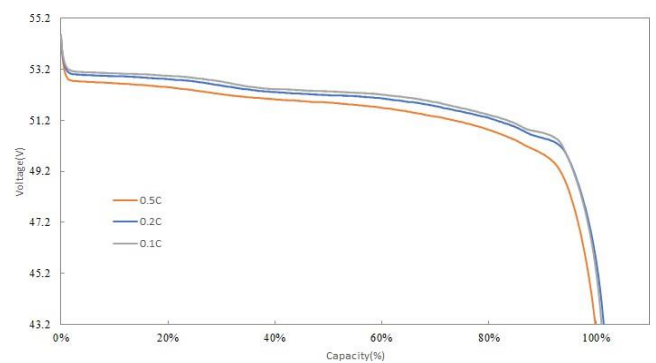
Discharge data with constant power/25°C

Time/h	512	1024	1540	2040	2560	3100	4080	4600
Endvoltage/V	Hours							
49.6V	9.42	4.59	3.04	2.29	1.66	1.36	0.87	0.81
48.0V	9.75	4.76	3.18	2.31	1.80	1.51	1.08	0.88
46.4V	9.97	4.85	3.25	2.40	1.90	1.54	1.15	0.90
45.0V	10.14	4.96	3.31	2.42	1.94	1.61	1.18	0.95
43.2V	10.26	5.11	3.36	2.50	1.96	1.63	1.20	0.96

Discharge Curves



Voltage vs. Discharge Capacity Percentage under Different Temperature



Voltage vs. Discharge Capacity Percentage with Different Current Rate