



Lithium-Ion Battery Technical Specifications

Product Overview

This document provides the technical specifications for the VT-91600 Lithium-Ion Battery models (SKU 12684 and SKU 12718). These batteries are designed for high-performance energy storage applications requiring reliable capacity, long cycle life, and stable communication capability.

Product Identification

Parameter	SKU 12684	SKU 12718
Battery Type	Lithium-Ion Battery	Lithium-Ion Battery
Model Name	VT-91600	VT-91600
SKU Number	12684	12718

Electrical Specifications

Parameter	SKU 12684	SKU 12718
Rated Capacity	200 Ah	200 Ah
Nominal Voltage	48 V	48 V
Nominal Energy	9.6 kWh	9.6 kWh
Standard Charge Current	90 A	90 A
Standard Discharge Current	90 A	90 A
Maximum Continuous Charge Current	100 A	100 A
Maximum Continuous Discharge Current	100 A	100 A
Standard Charge Voltage	54 V	54 V
Upper Limit Charging Voltage	54 V	54 V
End-of-Discharge Voltage	40.5 V	40.5 V
Communication Interface	CAN	CAN
Internal Resistance	16 mΩ	16 mΩ

Mechanical Specifications

Parameter	SKU 12684	SKU 12718
Dimensions (D × W × H)	505 × 490 × 228 mm	505 × 490 × 228 mm
Protection Rating	IP20	IP20
Battery Structure	15 Series, 1 Parallel	15 Series, 1 Parallel

Environmental Specifications

Parameter	SKU 12684	SKU 12718
Charge Temperature Range	0°C to 60°C	0°C to 60°C
Discharge Temperature Range	-20°C to 60°C	-20°C to 60°C

Performance Specifications

Parameter	SKU 12684	SKU 12718
Cycle Life (@25°C, 90% DOD)	≥ 6000 cycles	≥ 6000 cycles
End of Life (@25°C, 70% EOL)	≥ 6000 cycles	≥ 6000 cycles

Recommended Charging Method

Charge the battery using the following two-stage charging method:

1. Constant Current Stage

Charge at **90 A** constant current until voltage reaches **54 V**.

2. Constant Voltage Stage

Continue charging at **54 V** constant voltage until the charge current decreases to **15.7 A**.

Notes

- All specifications are based on standard laboratory conditions unless otherwise specified.
- Specifications are subject to change without prior notice.
- Always follow manufacturer safety and installation guidelines when handling lithium-ion batteries.