

51V LITHIUM BATTERY

10-002105 51.2V LITHIUM BATTERY

NAVITAS
VEHICLE SYSTEMS

Introducing the state-of-the-art 51.2V 105Ah Lithium Battery, proudly manufactured by Navitas in partnership with RoyPow

Meticulously engineered to redefine electric vehicle performance, this advanced lithium battery integrates Navitas' expertise and innovation for unparalleled efficiency, reliability, and connectivity

This lithium battery is equipped with an intelligent Battery Management System. The BMS monitors and manages cell health, temperature, and voltage efficiently, ensuring optimal performance, longevity, and safety. Seamlessly integrated with the Controller Area Network (CAN) protocol, it enables efficient communication between the battery and the vehicle's systems, facilitating real-time data exchange for precise control and monitoring

Bringing forth industrial safety technology, Navitas lithium batteries feature a built in fire suspension system.



Elevate your electric vehicle's capabilities with the Navitas—the pinnacle of performance, reliability, connectivity, and sustainability, setting new benchmarks for electric vehicle power solutions

GENERAL:

Nominal Voltage	51.2V
Working Voltage	43V - 58.4V
Recommended Voltage	48.0V - 57.0V
Cells	16S1P
Nominal Capacity	5,376Wh
IP Rating	IP65

CHARGING:

Continuous Charging Current	25A
Max Charging Current	55A
Bulk/Absorb Voltage	57.0V
Float Voltage	54.0V or Off
Overcharge Protection High Voltage Cutoff	58.4V
Charging Temp. Range	32F to 122F

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DISCHARGING:

Max Continuous Discharge	130A
Max Discharge 5 Sec	315A
Recommended Voltage Cutoff	48.0V
Discharge Voltage Cutoff	>40V
Over Discharge Release	46.4V
Discharge Working Temperature	-20C to 55C

SAFETY:

Charging Freeze Protection	Under 0C
Internal Fire Suppression	✓
Pack Under Voltage	✓
Cell Balancing	✓
Cell Under Voltage	✓
BMS Over Temperature	✓
Short Circuit Protection	>500A
Certifications	UN38.3, UL1642 Cell

PHYSICAL:

Cell Chemistry	LiFePO4
Cell Configuration	16S1P
Series Connection	No
Parallel Connection	Not Supported
Weight	132±11 lbs (60±5Kg)
Dimension	LxWxH 18.22" x 13.14" x 9.92" 462.8mm x 334mm x 252mm
Powder Coated Steel Case	✓
UN Shipping Class	UN 3480

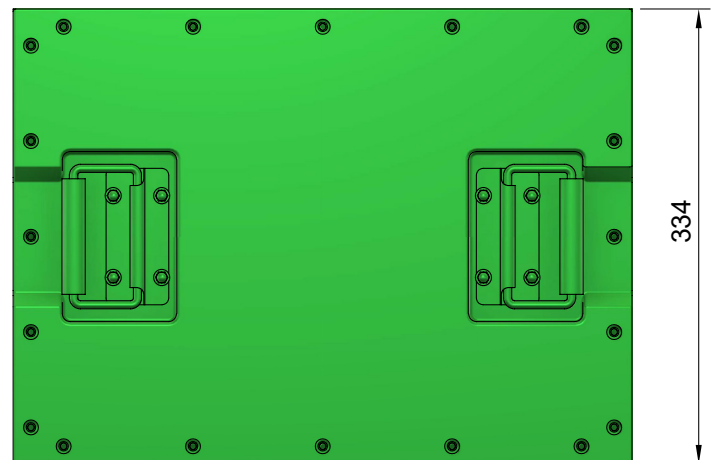
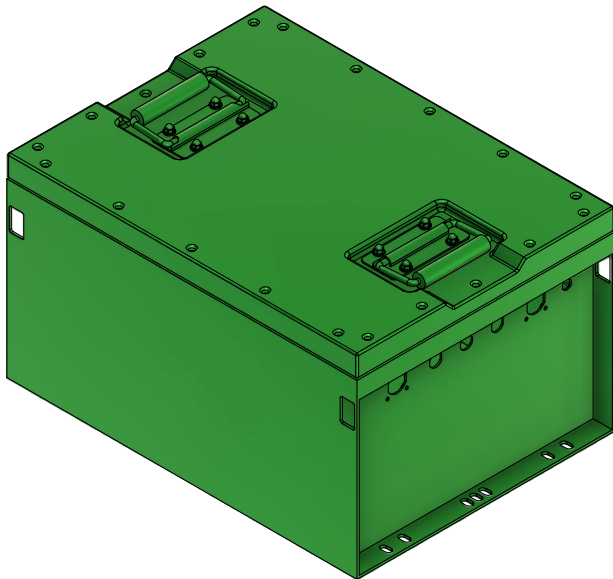
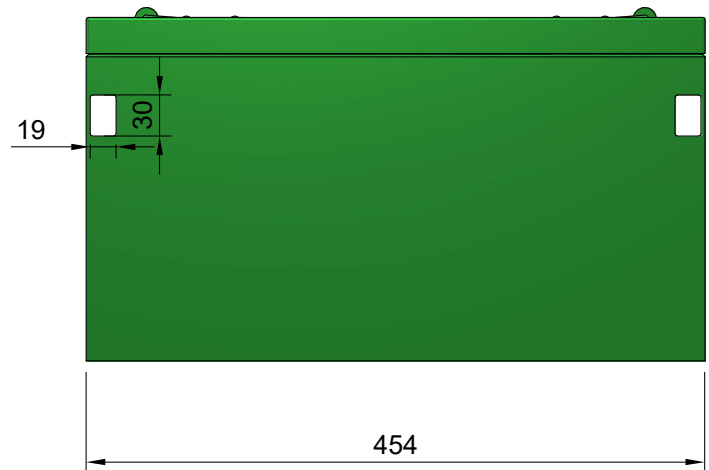
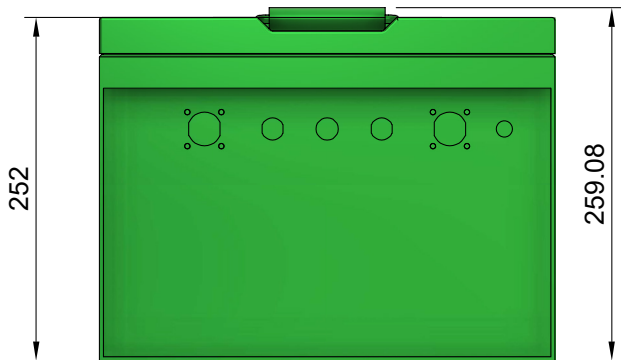
COMMUNICATION:

CAN	250Kbs
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NOTE: Specifications subject to change without notice

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*All Dimensions in mm