

VANGUARD®

48V 1.5kWh*

Commercial Battery Pack - Si 1.5

Same Battery. Multiple Applications.



Assembled In The U.S.A.

- > Designed, engineered, and assembled in the U.S.A. at Vanguard's advanced battery manufacturing facility with automation capabilities that improve product quality and safety.

Swappable

- > Ability to swap out from application to application on the jobsite to reduce downtime.

Brand/Equipment Agnostic

- > Works across multiple product platforms in a wide range of markets providing flexibility and cost efficiencies.
- > Multiple mounting configurations.

Increased Uptime

- > Up to 1000-cycle life to 80% initial capacity.

Operational Confidence

- > Integrated Battery Management System constantly monitors and measures the pack's voltage and temperature to ensure safe and efficient operations.

Flexibility

- > Single CANbus J1939 communication protocol allows OEMs to communicate with the battery's J1939 (automotive standard) CANbus.

Easy Troubleshooting

- > CANbus diagnostics opportunities.

BATTERY TECHNICAL SPECIFICATIONS



SPECIFICATION	48V 1.5 kWh ^{*†}
NOMINAL VOLTAGE	51.4 V
DISCHARGE CUTOFF VOLTAGE	35.0 V
DISCHARGE CURRENT, NOMINAL	29 A
DISCHARGE CURRENT, MAX. CONTINUOUS	100 A
DISCHARGE CURRENT, 3S SURGE	180 A
NOMINAL CAPACITY (PER IEC61960)	28.4Ah
NOMINAL ENERGY (PER IEC61960)	1.5 kWh
DISCHARGE TEMPERATURE RANGE	-40°C to +60°C
PARALLEL CAPABLE	Yes
MARKETED DURABILITY	Up to 1,000 cycles to 80% initial capacity
CHARGING	
CHARGE VOLTAGE (PER IEC61960)	58.8 V
CHARGE TEMPERATURE RANGE	0°C to +45°C
CHARGE TIME WITH 1425W VANGUARD® CHARGER	1.25 Hours
DIMENSIONS/WEIGHT	
PACK FRAME DIMENSIONS (L×W×H), INCHES	10.2 x 5.4 x 16.7
PACK FRAME DIMENSIONS (L×W×H), MILLIMETERS	258 x 136 x 425
PACK WEIGHT	11.8kg (26lbs)

VANGUARD

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^{*} Total energy measured using a 0.2C discharge per IEC 61960-3:2017.

[†] Battery packs are not currently in production and are subject to changes at time of production launch.

