

# 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



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

‡ See [vanguardpower.com](http://vanguardpower.com) for warranty details.

