

# VANGUARD™

## SAME BATTERY. MULTIPLE APPLICATIONS.

Vanguard™ 48V 1.5kWh\* Commercial Battery Pack – Si1.5

### INTERCHANGEABLE

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

### UNIVERSAL

- > Works across a broad spectrum of brands and equipment in a wide range of markets to provide 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.

### FLEXIBLE

- > The CANbus J1939 protocol allows OEMs to quickly integrate battery systems into an application's CANbus network.

### CONNECTED TROUBLESHOOTING

- > Easy diagnostics and monitoring due to CANbus and Bluetooth communications.

### 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.



GETTING THE JOB DONE

# BATTERY TECHNICAL SPECIFICATIONS



SPECIFICATION	48V 1.5 kWh*
NOMINAL VOLTAGE	51.4 V
DISCHARGE CUTOFF VOLTAGE	42.0 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	-4°F to 140°F / -20°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	32°F to 113°F / 0°C to 45°C
CHARGE TIME WITH 1425W VANGUARD CHARGER <sup>4</sup>	75 minutes

## DIMENSIONS/WEIGHT

PACK FRAME DIMENSIONS (L×W×H)	10.2 x 5.4 x 16.7 in 258 x 136 x 425 mm
PACK WEIGHT	26 lbs / 11,8 kg

# VANGUARD™

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\* Total energy measured using a 0.2C discharge per IEC 61960-3:2017. <sup>1</sup> See [vanguardpower.com](http://vanguardpower.com) for warranty details. <sup>2</sup> Zero emissions apply only to the battery pack during operation. <sup>3</sup> The battery pack is silent, however the application itself may make noise. <sup>4</sup> When the battery is <30°C at the start of charging.