

# VANGUARD™

## LEADER OF THE PACK IN POWER, SAFETY, AND PERFORMANCE.

### Vanguard™ Fi Series Fixed Battery Packs

#### **DURABLE**

- > Built to conquer harsh conditions, including extreme temperatures, impact, vibration, and dirt, ensuring reliable power wherever your work takes you.

#### **ADVANCED BATTERY MANAGEMENT SYSTEM (BMS)**

- > Continuously monitors individual cell bank temperatures and voltages, guaranteeing safe and optimized performance at all times.

#### **UNIQUE CELL MODULE ASSEMBLY (CMA)**

- > Engineered for superior power delivery and enhanced safety, setting a new standard in battery technology.

#### **SEAMLESS INTEGRATION**

- > CANbus J1939 communication protocol allows for effortless integration and communication with OEM systems, ensuring broad compatibility.

#### **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



<b>SPECIFICATION</b>	48V 1.5 kWh*	24V 3.5 kWh*
<b>ENCLOSURE MATERIALS</b>	Aluminum	Aluminum
<b>NOMINAL VOLTAGE</b>	51.4 V	25.8 V
<b>DISCHARGE CUTOFF VOLTAGE</b>	42.0 V	17.5 V
<b>DISCHARGE CURRENT, NOMINAL</b>	29 A	134 A
<b>DISCHARGE CURRENT, MAX. CONTINUOUS</b>	100 A	200 A
<b>DISCHARGE CURRENT, 10S SURGE</b>	†	400 A
<b>NOMINAL CAPACITY (PER IEC 61960)</b>	28.4Ah	135.9 Ah
<b>NOMINAL ENERGY (PER IEC 61960)</b>	1.5 kWh	3.5 kWh
<b>DISCHARGE TEMPERATURE RANGE</b>	-40°F to +140°F -40°C to +60°C	-4°F to +140°F -20°C to +60°C
<b>PARALLEL CAPABLE</b>	Yes	Yes
<b>MARKETED DURABILITY</b>	Up to 1,000 cycles to 80% initial capacity	Up to 2,000 cycles to 80% initial capacity
<b>CHARGING</b>		
<b>CHARGE VOLTAGE (PER IEC 61960)</b>	58.8 V	29.4 V
<b>CHARGE TEMPERATURE RANGE</b>	+32°F to +113°F 0°C to +45°C	+32°F to +113°F 0°C to +45°C
<b>CHARGE TIME WITH 1050W VANGUARD CHARGER</b>	N/A	6 Hours
<b>CHARGE TIME WITH 1425W VANGUARD CHARGER<sup>4</sup></b>	75 Minutes	5 Hours
<b>CHARGE TIME WITH 3000W VANGUARD CHARGER</b>	N/A	4 Hours
<b>DIMENSIONS/WEIGHT</b>		
<b>PACK FRAME DIMENSIONS (L×W×H)</b>	10.1 x 5.1 x 14.6 in 256 x 131 x 371 mm	19.0 x 10.7 x 10.5 in 482 x 272 x 266 mm
<b>PACK WEIGHT</b>	25.5 lbs / 11,6 kg	58 lbs / 26,3 kg

\* 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.



48V 3.5 kWh*	48V 5.0 kWh*	48V 7.0 kWh*	48V 7.0 kWh*
Aluminum	Aluminum	Aluminum	Aluminum
51.6 V	51.6 V	51.6 V	51.6 V
35.0 V	35.0 V	35.0 V	35.0 V
67 A	100 A	134 A	134 A
134 A	200 A	200 A	200 A
200 A	300 A	400 A	400 A
67.5 Ah	98.7 Ah	135.9 Ah	135.9 Ah
3.5 kWh	5.1 kWh	7.0 kWh	7.0 kWh
-4°F to +140°F -20°C to +60°C			
Yes	Yes	Yes	Yes
Up to 2,000 cycles to 80% initial capacity			
58.8 V	58.8 V	58.8 V	58.8 V
+32°F to +113°F 0°C to +45°C			
4 Hours	5.5 Hours	8 Hours	8 Hours
3 Hours	4 Hours	6 Hours	6 Hours
2 Hours	2.5 Hours	3 Hours	3 Hours
19.0 x 10.7 x 10.5 in 482 x 272 x 266 mm	23.3 x 10.5 x 14.4 in 597 x 266 x 362 mm	23.3 x 10.5 x 14.4 in 597 x 266 x 362 mm	34.5 x 11.2 x 10.4 in 877 x 281 x 262 mm
58 lbs / 26,3 kg	86 lbs / 39 kg	102 lbs / 46,3 kg	105 lbs / 47,6 kg

**VANGUARD™**

**BRIGGS & STRATTON**

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