



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



SPECIFICATION	48V 1.5 kWh*	24V 3.5 kWh*
ENCLOSURE MATERIALS	Aluminum	Aluminum
NOMINAL VOLTAGE	51.4 V	25.8 V
DISCHARGE CUTOFF VOLTAGE	35.0 V	17.5 V
DISCHARGE CURRENT, NOMINAL	29 A	134 A
DISCHARGE CURRENT, MAX. CONTINUOUS	100 A	200 A
DISCHARGE CURRENT, 10S SURGE	†	400 A
NOMINAL CAPACITY (PER IEC 61960)	28.4Ah	135.9 Ah
NOMINAL ENERGY (PER IEC 61960)	1.5 kWh	3.5 kWh
DISCHARGE TEMPERATURE RANGE	-40°F to +140°F -40°C to +60°C	-4°F to +140°F -20°C to +60°C
PARALLEL CAPABLE	Yes	Yes
MARKETED DURABILITY	Up to 1,000 cycles to 80% initial capacity	Up to 2,000 cycles to 80% initial capacity

CHARGING

CHARGE VOLTAGE (PER IEC 61960)	58.8 V	29.4 V
CHARGE TEMPERATURE RANGE	+32°F to +113°F 0°C to +45°C	+32°F to +113°F 0°C to +45°C
CHARGE TIME WITH 1050W VANGUARD CHARGER	N/A	6 Hours
CHARGE TIME WITH 1425W VANGUARD CHARGER ⁴	75 Minutes	5 Hours
CHARGE TIME WITH 3000W VANGUARD CHARGER	N/A	4 Hours

DIMENSIONS/WEIGHT

PACK FRAME DIMENSIONS (L×W×H)	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
PACK WEIGHT	25.5 lbs / 11,6 kg	58 lbs / 26,3 kg

* Total energy measured using a 0.2C discharge per IEC 61960-3:2017. † See vanguardpower.com for warranty details. ‡ Zero emissions apply only to the battery pack during operation. ‡ The battery pack is silent, however the application itself may make noise. ‡ 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	-4°F to +140°F -20°C to +60°C	-4°F to +140°F -20°C to +60°C	-4°F to +140°F -20°C to +60°C
Yes	Yes	Yes	Yes
Up to 2,000 cycles to 80% initial capacity	Up to 2,000 cycles to 80% initial capacity	Up to 2,000 cycles to 80% initial capacity	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	+32°F to +113°F 0°C to +45°C	+32°F to +113°F 0°C to +45°C	+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™

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