

VANGUARD[®]

Fi Series – Fixed Battery Packs

Leader of the pack in power, safety, and performance.

Durable

- > Multiple protective features tested to withstand harsh conditions, including extreme temperatures, impact, vibration and dirt.

Battery Management System

- > Monitors temperatures and voltages of each cell bank to ensure safe operations

Unique CMA (Cell Module Assembly) Design

- > For efficient power and safety



BATTERY TECHNICAL SPECIFICATIONS



SPECIFICATION	48V 3.5 kWh*†	48V 5.0 kWh*†
ENCLOSURE MATERIALS	Aluminum	Aluminum
NOMINAL VOLTAGE	51.6 V	51.6 V
DISCHARGE CUTOFF VOLTAGE	35.0 V	35.0 V
DISCHARGE CURRENT, NOMINAL	67 A	100 A
DISCHARGE CURRENT, MAX. CONTINUOUS	168 A	200 A
DISCHARGE CURRENT, 10S SURGE	200 A	300 A
NOMINAL CAPACITY (PER IEC61960)	67.5 Ah	98.7 Ah
NOMINAL ENERGY (PER IEC61960)	3.5 kWh	5.1 kWh
DISCHARGE TEMPERATURE RANGE	-20°C to +70°C	-20°C to +70°C
PARALLEL CAPABLE	Yes	Yes
MARKETED DURABILITY	Up to 2,000 cycles to 80% initial capacity	Up to 2,000 cycles to 80% initial capacity
CHARGING		
CHARGE VOLTAGE (PER IEC61960)	58.8 V	58.8 V
CHARGE TEMPERATURE RANGE	-10°C to +45°C	-10°C to +45°C
CHARGE TIME WITH 1050W VANGUARD® CHARGER	4 Hours	5.5 Hours
CHARGE TIME WITH 3000W VANGUARD® CHARGER	2.5 Hours	3 Hours
DIMENSIONS/WEIGHT		
PACK FRAME DIMENSIONS (L×W×H), INCHES	19.9 x 11.5 x 10.5	23.3 x 10.5 x 14.4
PACK FRAME DIMENSIONS (L×W×H), MILLIMETERS	505 x 292 x 266	597 x 266 x 362
PACK WEIGHT	31.8kg (70lbs)	42.6kg (94lbs)

* 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.



48V 5.0 kWh**	48V 7.0 kWh**	48V 7.0 kWh**	48V 10.0 kWh*
Aluminum	Aluminum	Aluminum	Polymer
51.6 V	51.6 V	51.6 V	51.6 V
35.0 V	35.0 V	35.0 V	35.0 V
100 A	134 A	134 A	100 A
200 A	200 A	200 A	200 A
300 A	400 A	400 A	300 A
98.7 Ah	135.9 Ah	135.9 Ah	197.4 Ah
5.1 kWh	7.0 kWh	7.0 kWh	10.2 kWh
-20°C to +70°C	-20°C to +70°C	-20°C to +70°C	-20°C to +70°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
-10°C to +45°	-10°C to +45°C	-10°C to +45°C	-10°C to +45°C
5.5 Hours	8 Hours	8 Hours	9.5 Hours
3 Hours	4 Hours	4 Hours	5 Hours
34.5 × 11.2 × 10.4	23.3 × 10.5 × 14.4	34.5 × 11.2 × 10.4	24.5 × 17.3 × 14.4
876 × 283 × 264	597 × 266 × 362	876 × 284 × 264	624 × 439 × 366
45.4kg (100lbs)	49.9kg (110lbs)	52.6kg (116lbs)	95.3kg (210lbs)

VANGUARD

BRIGGS & STRATTON
Milwaukee, WI 53201-0702 USA
(414) 259-5333
Copyright ©2022. All rights reserved.

WWW.VANGUARDPOWER.COM

