WANGUARD

Fi Series – Fixed Battery Packs

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

NGUNR

L.L.L.

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

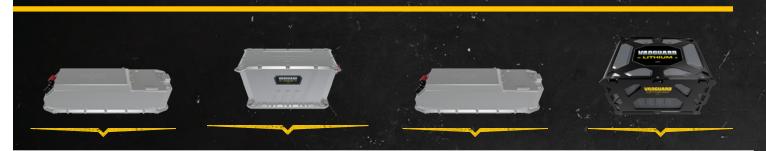
> For efficient power and safety

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		i Antonio
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 × 10.5 × 14.4
PACK ERAME DIMENSIONS		



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

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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
Variation of the second	a second second		11

$34.5 \times 11.2 \times 10.4$	23.3 x 10.5 x 14.4	34.5 x 11.2 x 10.4	24.5 × 17.3 × 14.4
876 × 283 × 264	597 x 266 x 362	876 x 284 x 264	624 × 439 × 366
45.4kg (100lbs)	49.9kg (110lbs)	52.6kg (116lbs)	95.3kg (210lbs)



VWWW.VANGUARDPOWER.COM

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