

# VANGUARD®



**2022 VANGUARD® Power Guide -  
Europe, Middle East and Africa**



**BRIGGS & STRATTON, LLC**

# VANGUARD®

**3**  
**YEAR**  
**COMMERCIAL**  
**LIMITED**  
**WARRANTY**

**+1**  
**WARRANTY**  
**BONUS**  
**YEAR**

**VANGUARD® 160, 200 and 400**  
**Single-Cylinder Offer**



\* Additional 1 year limited commercial warranty available for free subject to engine registration on [www.vanguardpower.com](http://www.vanguardpower.com). See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details



Steve Andrews  
President & CEO  
Briggs & Stratton, LLC

Greetings, Valued Briggs & Stratton Customer:

It's been a busy several months since I joined Briggs & Stratton as President and CEO in September 2020. During this time, I've had the opportunity to meet virtually with many of our customers to hear first hand what is needed from us to be a best-in-class partner, supplier, innovator and support team. This is important to all of us at Briggs & Stratton, as focusing on the customer is one of the most important guiding principles driving our business.

As we focus on building a stronger future, there are several things you can count on from us:

- » We are committed to providing best-in-class power solutions to our customers.
- » Our engine business remains a core part of our expanding power portfolio.
- » We will invest significantly in new power technologies like commercial batteries to keep you at the forefront of market-driven innovation.
- » Backed by a 113-year legacy, we have more expertise in providing and applying power than anybody else in the industry; and we will use that expertise to help you deliver continuous technology improvements to make your work easier.
- » Innovation, new products and growth will be key to a stronger future.

Leading this iconic company over the past several months has been an honour. I look forward to many years of success ahead and thank you for your continued loyalty to Briggs & Stratton.

**Steve Andrews**

# SAFEGUARD

your investment.



Register your VANGUARD® 160, 200 or 400 single-cylinder on [www.vanguardpower.com](http://www.vanguardpower.com) for an extra **1 YEAR** Global Limited Commercial Warranty.\*

**Industry leading protection.**



## V-Twin 29,9 Gross kW\* EFI / ETC Engine

**Power to perform.**

The new VANGUARD® 29,9 Gross kW EFI / ETC engine delivers optimal power when it's demanded. The combination of EFI and ETC technology results on a smoother performance, improved stale fuel resistance, more consistent power and reduced fuel consumption.

**Productivity defined.**



UP TO **25%**  
FUEL SAVINGS



\* Power levels are stated gross kilowatt at 3'600 rpm per SAE J1940 as rated by Briggs & Stratton.

\*\* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

† Fuel savings may vary based on operating conditions.

# NEW Commercial Battery Packs

Leading a revolution in power.



The VANGUARD® Commercial Battery is an integrated battery system designed to power multiple commercial applications. Our battery pack, Battery Management System (BMS) and charger were designed to work seamlessly with each other, for the most efficient performance.

**Seamless integration.**

**This is the next generation of power.**



**Integrated battery system. One solution - multiple applications.**



**BATTERY**



**BMS**



**CHARGER**

Discover more about VANGUARD® Commercial Battery Packs in pages 38 - 40.

† The battery pack is silent, however the application itself may make noise.

\* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

# The competition is shaking.

Our engines are not.

- ✓ Easy starting **by design**
- ✓ Lower noise and vibration **by design**
- ✓ Extreme operation **by design**
- ✓ Reduced TCO **by design**
- ✓ TransportGuard™ **by design**
- ✓ Drop-fit **by design**
- ✓ Easy maintenance **by design**
- ✓ **Power Application Centre support**
- ✓ **European Stage 5 exhaust emissions compliant**

Choosing the **VANGUARD®** single-cylinder engines benefit you and your customers.

**TRUST THE POWER™**



**Quieter Operation**



**Oil Replacement**



**Lower Vibration**



**Air-Cleaner Life**



**Angle of Operation\*\***



**Fuel Shut Off System**



**Less Oil Waste\***



**3+1 Commercial Limited Warranty†**

\* Based on manufacturer's service recommendations per operator's manuals.

\*\* High Inclination Package optional. Refer to equipment operators manual for usage instructions.

† Applies only to VANGUARD® 160, 200 and 400 after engine registration. Additional 1 year limited commercial warranty available for free subject to engine registration on [www.vanguardpower.com](http://www.vanguardpower.com). See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

# Productivity. Defined.

You have no time for wasted time. That's why everything we do is focused on increasing your productivity and your bottom line. Our VANGUARD® commercial-grade engines deliver unrelenting, reliable performance. And practical innovations make them easier to start and maintain.

But that's just the beginning. Our commitment to keeping you running all day – day after day – includes a dealer network designed to support your needs. It's backed by genuine parts delivered within 48 hours, 24/7 technical support, expert training, and fast warranty recovery.

That's our total solution to lower your cost of ownership, increase productivity and decrease downtime.

**That's the VANGUARD® advantage.**





### World-class parts delivery and availability



- » A state-of-the-art Netherlands warehouse facility built in 2016 and a robust network of 80+ Distribution Partners
- » Parts delivery within 24/48 hours

### Industry leading commercial warranty



- » 3-year global commercial limited engine warranty\*
- » 90% of claims processed in 48 hours or less
- » 24/7/365 online claim submittal
- » European-based Power Application Centre

### Dedicated commercial technical support and resources



- » Highly skilled, industry-expert support staff
- » International network of commercially-focused dealers
- » 24/7 online support through our Power Portal
- » Access to the documentation you need: Illustrated Parts List, Replacement Engine Data and Service Bulletins

### Right parts, right price



- » Over 20,000 genuine parts in inventory
- » Competitively priced parts so you can focus on your bottom line

### Unmatched service education



- » Manufacturer-certified classroom training and advanced EFI training for dealers
- » 99% competency rate among the technicians we certify every single year
- » Over 6,000 technicians certified worldwide every year

\* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.



Optimizing equipment productivity and reducing downtime are the most important factors for commercial users. Oil Guard™ technology exclusive to VANGUARD® significantly reduces the time and costs associated with oil maintenance by providing enhanced oil protection resulting in extended oil life for hard working commercial engines.

**CUSTOM CAP**

Tether  
Locking tab  
¼ turn

**CUSTOM OIL FILTER**

2 x Capacity  
Finer filtration  
Mess-free changes

**CENTRIFUGAL OIL FLOW  
TO REDUCE AERATION**

**QUICK-CONNECT  
HOSE ATTACHMENTS**



# Advanced oil protection & maintenance.



## Oil Guard™ benefits:

- » Extended maintenance intervals – from **100** to **500 hours**
- » **60%** cost savings per unit per season\*
- » Lower labour costs
- » Engine can operate continuously at angles up to **45°**\*\*
- » Cleaner, easier and faster oil changes
- » Thermal breakdown protection
- » Fewer oil changes
- » **82%** larger filter decreases oil aeration
- » Wider oil opening – no mess and no need for a funnel
- » Longer engine life

\* Cost savings are based on standard oil maintenance with 100-hour interval versus the new Oil Guard System 500-hour service interval.

\*\* Refer to specific usage/operating conditions as approved by the equipment manufacturer in the operator's manual.



### **Electronic Fuel Injection (EFI)**

Our VANGUARD® V-Twin EFI engines feature an automotive-based, EFI system that delivers easier starting and improved performance, with fuel savings of up to 25%.\*



### **Electronic Throttle Control (ETC)**

VANGUARD® ETC technology reacts instantaneously to any applied load from its environment to maintain power when the application demands it. The flywheel speed sensor detects any change in RPM and sends a signal to the throttle body, ensuring consistent engine speed - which means consistent power and quality of cut.

\* Fuel savings may vary based on cutting conditions and other factors.



### TransportGuard™

One of the most common issues with petrol powered rental equipment is the operator failing to shut off the fuel supply before transporting the equipment. Failure to shut off the fuel supply results in costly oil and fuel dilution. With the innovative TransportGuard™ system, exclusive to VANGUARD® 3,7 - 10,4 Gross Kilowatt† engines, simply move the TransportGuard™ lever to shut off both engine and fuel supply simultaneously.

This system eliminates operator error and ensures trouble free equipment transportation. Problem solved.



† Power levels are stated gross kilowatt at 3'600 rpm per SAE J1940 as rated by Briggs & Stratton.

## VANGUARD® Horizontal Shaft Commercial Engines

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# VANGUARD®

## THE RENTAL ENGINE



- ✓ Simplified 3 step starting
- ✓ Easy starting down to **-29°C\***
- ✓ TransportGuard™ technology for engine protection
- ✓ Quieter engine and lower vibration
- ✓ **50%** less maintenance than the industry standard<sup>‡</sup>
- ✓ Reduced total cost of ownership
- ✓ **3+1** commercial limited warranty<sup>†</sup>

<sup>†</sup> Applies only to VANGUARD® 160, 200 and 400 after engine registration. Additional 1 year limited commercial warranty available for free subject to engine registration on [www.vanguardpower.com](http://www.vanguardpower.com). See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

<sup>\*</sup> Based on manufacturer's service recommendations per operator's manuals.

<sup>‡</sup> Compared to leading competitors. Results may vary based upon application and conditions.

"The new generation of VANGUARD® single-cylinder engines offer many game-changing improvements.

The engines allow us to cut our equipment service intervals almost by half and drop our oil waste and recycling, thus reducing the environmental impact of our fleet."

**Guy Cremer - Director of Fleet Operations, Boels Rental**

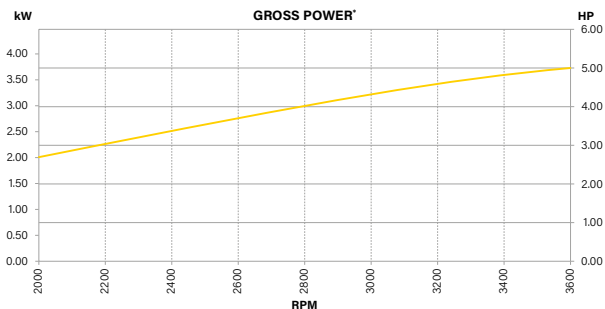
[www.VANGUARDPOWER.com](http://www.VANGUARDPOWER.com)

HORIZONTAL · SINGLE-CYLINDER  
**VANGUARD® 160 – 3,7 GROSS kW\***

HORIZONTAL · SINGLE-CYLINDER



<b>Engine type</b>	Single-cylinder, 4-stroke, air cooled, OHV (Overhead Valve)
<b>Model number</b>	10V3
<b>Gross power kW (HP) @ 3'600 rpm</b>	3,7* (5,0)
<b>Displacement (cc)</b>	169
<b>Cylinder</b>	Cast iron sleeve
<b>Bore &amp; stroke (mm)</b>	62,0 x 56,0
<b>Fuel tank capacity (l)</b>	3,1
<b>Oil capacity (l)</b>	0,6
<b>Dry weight (kg)</b>	17,9
<b>Dimensions L x W x H (mm)</b>	274 x 366 x 361
<b>Features</b>	TransportGuard™, dual ball bearing, integrated cyclonic air cleaner, Super Lo-Tone™ muffler
<b>Optional</b>	Electric start, low oil sensor, 45° inclination package, clear flange muffler



\* All power levels are stated gross kilowatts per SAE J1940 as rated by Briggs & Stratton.

\*\* Extra year warranty after engine registration. See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

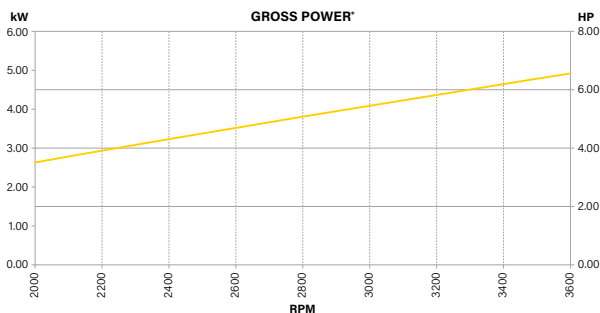


HORIZONTAL · SINGLE-CYLINDER  
**VANGUARD® 200 – 4,8 GROSS kW\***

HORIZONTAL · SINGLE-CYLINDER



<b>Engine type</b>	Single-cylinder, 4-stroke, air cooled, OHV (Overhead Valve)
<b>Model number</b>	12V3
<b>Gross power kW (HP) @ 3'600 rpm</b>	4,8* (6,5)
<b>Displacement (cc)</b>	203
<b>Cylinder</b>	Cast iron sleeve
<b>Bore &amp; stroke (mm)</b>	68,0 x 56,0
<b>Fuel tank capacity (l)</b>	3,1
<b>Oil capacity (l)</b>	0,6
<b>Dry weight (kg)</b>	17,9
<b>Dimensions L x W x H (mm)</b>	289 x 375 x 361
<b>Features</b>	TransportGuard™, dual ball bearing, integrated cyclonic air cleaner, Super Lo-Tone™ muffler
<b>Optional</b>	Electric start, low oil sensor, 45° inclination package, clear flange muffler



\* All power levels are stated gross kilowatts per SAE J1940 as rated by Briggs & Stratton.

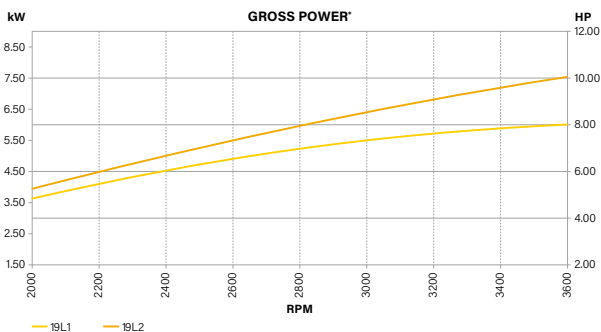
\*\* Extra year warranty after engine registration. See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

HORIZONTAL · SINGLE-CYLINDER  
**VANGUARD® 6,0 - 7,5 GROSS kW\***

HORIZONTAL · SINGLE-CYLINDER



<b>Engine type</b>	Single-cylinder, 4-stroke, air cooled, OHV (Overhead Valve)	
<b>Model number</b>	19L1	19L2
<b>Gross power kW (HP) @ 3'600 rpm</b>	6,0* (8,0)	7,5* (10,0)
<b>Displacement (cc)</b>	305	
<b>Cylinder</b>	Cast iron sleeve	
<b>Bore &amp; stroke (mm)</b>	79,2 x 61,9	
<b>Fuel tank capacity (l)</b>	3,6	
<b>Oil capacity (l)</b>	0,8	
<b>Dry weight (kg)</b>	25,9	
<b>Dimensions L x W x H (mm)</b>	314 x 422 x 403	
<b>Features</b>	TransportGuard™, dual ball bearing, Super Lo-Tone™ muffler	
<b>Optional</b>	Electric start, low oil sensor	



\* All power levels are stated gross kilowatts per SAE J1940 as rated by Briggs & Stratton.

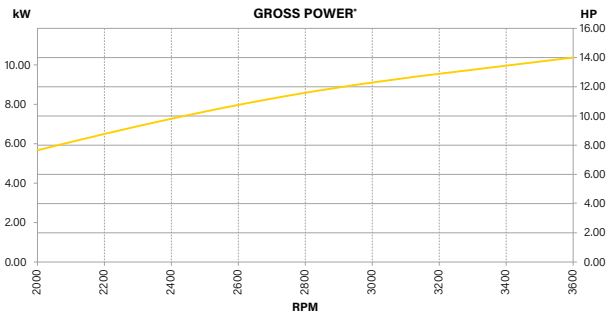
\*\* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

HORIZONTAL · SINGLE-CYLINDER  
**VANGUARD® 400 – 10,4 GROSS kW\***

HORIZONTAL · SINGLE-CYLINDER



<b>Engine type</b>	Single-cylinder, 4-stroke, air cooled, OHV (Overhead Valve)
<b>Model number</b>	25V3
<b>Gross power kW (HP) @ 3'600 rpm</b>	10,4* (14,0)
<b>Displacement (cc)</b>	408
<b>Cylinder</b>	Cast iron sleeve
<b>Bore &amp; stroke (mm)</b>	88,0 x 67,0
<b>Fuel tank capacity (l)</b>	6,1
<b>Oil capacity (l)</b>	0,94
<b>Dry weight (kg)</b>	35,5
<b>Dimensions L x W x H (mm)</b>	363 x 455 x 460
<b>Features</b>	TransportGuard™, dual ball bearing, Super Lo-Tone™ muffler, integrated cyclonic air cleaner
<b>Optional</b>	Electric start, low oil sensor, 45° inclination package, clear flange muffler



\* All power levels are stated gross kilowatts per SAE J1940 as rated by Briggs & Stratton.

\*\* Extra year warranty after engine registration. See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.



# Protects your engine. Increases productivity.



Optional in selected vertical shaft V-Twin engines.

- ✓ **60% savings** on oil maintenance per unit per season\*
- ✓ **500 hours** maintenance intervals
- ✓ Engine can operate at **up to 45°†**
- ✓ Thermal breakdown protection

\* Based on standard oil maintenance with 100-hour interval versus Oil Guard™ system 500-hour service interval.

† Refer to specific usage/operating conditions as approved by the equipment manufacturer in the operator's manual.



Only available on the new VANGUARD<sup>†</sup>  
EFI / ETC 29,9 Gross kW engine

**UP  
TO 25%**  
**FUEL SAVINGS<sup>†</sup>**



A feature in selected vertical and horizontal shaft V-Twin engines.

- ✓ **Up to 25%** greater fuel efficiency<sup>†</sup>
- ✓ Excellent load response
- ✓ Easy chokeless starting at extreme temperatures
- ✓ Alcohol and stale fuel resistance
- ✓ Unparalleled power to weight ratio
- ✓ Improved engine performance
- ✓ **ETC** ensures consistent power when the application demands it

<sup>†</sup> Fuel savings may vary based on operating conditions.

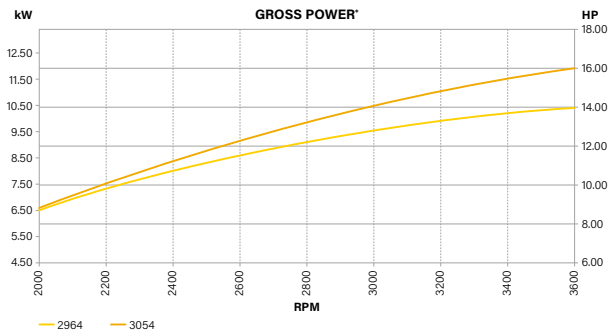


HORIZONTAL · V-TWIN  
**VANGUARD® 10,4 - 11,9 GROSS kW\***

HORIZONTAL · V-TWIN



<b>Engine type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)	
<b>Model number</b>	2964	3054
<b>Gross power kW (HP) @ 3'600 rpm</b>	10,4* (14,0)	11,9* (16,0)
<b>Displacement (cc)</b>	479	
<b>Cylinder</b>	Cast iron sleeve	
<b>Bore &amp; stroke (mm)</b>	68,0 x 66,0	
<b>Fuel tank capacity (l)</b>	NA	
<b>Oil capacity (l)</b>	1,7	
<b>Dry weight (kg)</b>	32,7	
<b>Dimensions L x W x H (mm)</b>	279 x 410 x 438	
<b>Features</b>	Oil filter, full pressure lubrication	
<b>Optional</b>	Rewind start, fuel tank <sup>†</sup> , muffler	

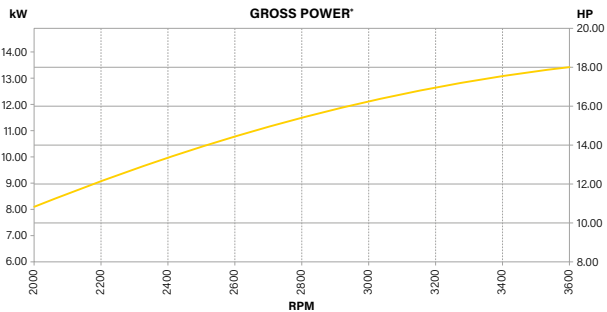


\* All power levels are stated gross kilowatts per SAE J1940 as rated by Briggs & Stratton.

\*\* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.



<b>Engine type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)
<b>Model number</b>	3564
<b>Gross power kW (HP) @ 3'600 rpm</b>	13,4* (18,0)
<b>Displacement (cc)</b>	570
<b>Cylinder</b>	Cast iron sleeve
<b>Bore &amp; stroke (mm)</b>	72,0 x 70,0
<b>Fuel tank capacity (l)</b>	NA
<b>Oil capacity (l)</b>	1,7
<b>Dry weight (kg)</b>	33,6
<b>Dimensions L x W x H (mm)</b>	318 x 410 x 438
<b>Features</b>	Oil filter, full pressure lubrication
<b>Optional</b>	Rewind start, fuel tank <sup>†</sup> , muffler



\* All power levels are stated gross kilowatts per SAE J1940 as rated by Briggs & Stratton.

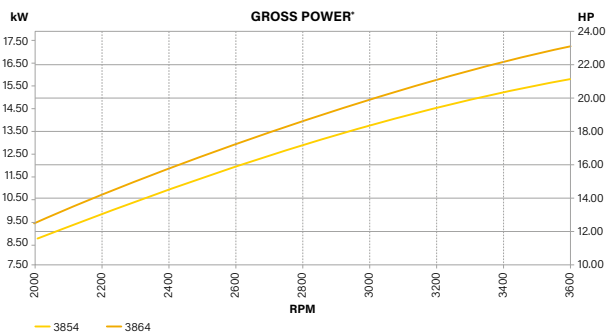
\*\* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

HORIZONTAL · V-TWIN  
**VANGUARD® 15,7 - 17,2 GROSS kW\***

HORIZONTAL · V-TWIN



<b>Engine type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)	
<b>Model number</b>	3854	3864
<b>Gross power kW (HP) @ 3'600 rpm</b>	15,7* (21,0)	17,2* (23,0)
<b>Displacement (cc)</b>	627	
<b>Cylinder</b>	Cast iron sleeve	
<b>Bore &amp; stroke (mm)</b>	75,5 x 70,0	
<b>Fuel tank capacity (l)</b>	NA	
<b>Oil capacity (l)</b>	1,7	
<b>Dry weight (kg)</b>	35,0	
<b>Dimensions L x W x H (mm)</b>	318 x 407 x 449	
<b>Features</b>	Oil filter, full pressure lubrication	
<b>Optional</b>	Rewind start, fuel tank <sup>†</sup> , muffler, cyclonic air cleaner	



\* All power levels are stated gross kilowatts per SAE J1940 as rated by Briggs & Stratton.

\*\* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

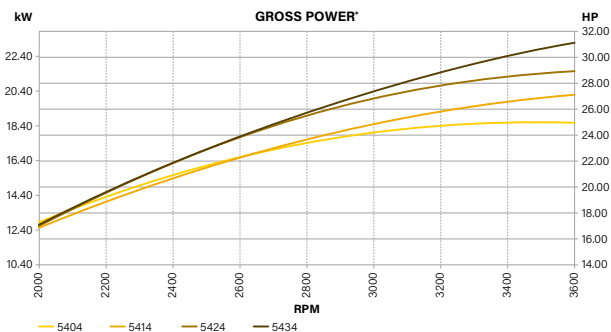


HORIZONTAL · V-TWIN  
**VANGUARD® 18,7 - 23,1 GROSS kW\***

HORIZONTAL · V-TWIN



<b>Engine type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)			
<b>Model number</b>	5404	5414	5424	5434
<b>Gross power kW (HP) @ 3'600 rpm</b>	18,7* (25,0)	20,1* (27,0)	21,6* (29,0)	23,1* (31,0)
<b>Displacement (cc)</b>	896			
<b>Cylinder</b>	Cast iron sleeve			
<b>Bore &amp; stroke (mm)</b>	85,5 x 78,0			
<b>Fuel tank capacity (l)</b>	NA			
<b>Oil capacity (l)</b>	2,3			
<b>Dry weight (kg)</b>	56,8			
<b>Dimensions L x W x H (mm)</b>	379 x 496 x 725			
<b>Features</b>	Oil filter, full pressure lubrication, cyclonic air cleaner			
<b>Optional</b>	Muffler, flat panel air cleaner			



\* All power levels are stated gross kilowatts per SAE J1940 as rated by Briggs & Stratton.

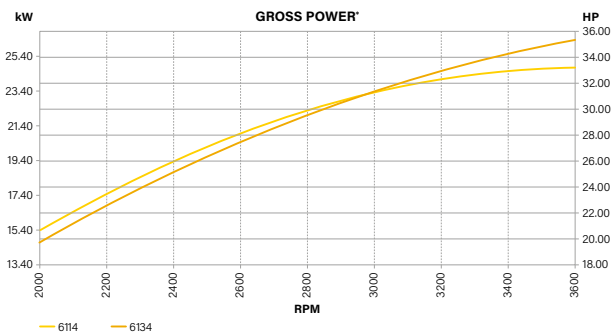
\*\* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

HORIZONTAL · V-TWIN  
**VANGUARD® 24,6 - 26,1 GROSS kW\***

HORIZONTAL · V-TWIN



<b>Engine type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)	
<b>Model number</b>	6114	6134
<b>Gross power kW (HP) @ 3'600 rpm</b>	24,6* (33,0)	26,1* (35,0)
<b>Displacement (cc)</b>	993	
<b>Cylinder</b>	Cast iron sleeve	
<b>Bore &amp; stroke (mm)</b>	85,5 x 86,5	
<b>Fuel tank capacity (l)</b>	NA	
<b>Oil capacity (l)</b>	2,3	
<b>Dry weight (kg)</b>	56,8	
<b>Dimensions L x W x H (mm)</b>	379 x 496 x 725	
<b>Features</b>	Oil filter, full pressure lubrication, cyclonic air cleaner	
<b>Optional</b>	Muffler, flat panel air cleaner	



\* All power levels are stated gross kilowatts per SAE J1940 as rated by Briggs & Stratton.

\*\* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

# VANGUARD®



2x 1.9



Our VANGUARD® V-Twin EFI engines feature an EFI system that delivers easier starting and improved performance.

\*For more information about the VANGUARD® V-Twin EFI engines and details of the 3-year limited global warranty visit [www.VANGUARDPOWER.com](http://www.VANGUARDPOWER.com)

# TRUST THE POWER™

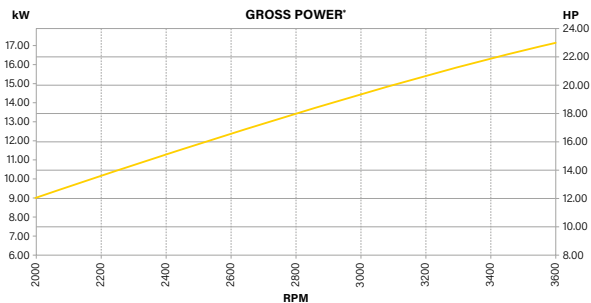
[www.VANGUARDPOWER.com](http://www.VANGUARDPOWER.com)

HORIZONTAL · V-TWIN EFI  
**VANGUARD® EFI 17,2 GROSS kW\***

HORIZONTAL · V-TWIN EFI



<b>Engine Type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)
<b>Model number</b>	38E3
<b>Gross Power kW (HP) @ 3'600 rpm</b>	17,2* (23,0)
<b>Displacement (cc)</b>	627
<b>Cylinder</b>	Cast iron sleeve
<b>Bore &amp; stroke (mm)</b>	75,5 x 70,0
<b>Fuel Tank Capacity (l)</b>	NA
<b>Oil Capacity (l)</b>	1,7
<b>Dry Weight (kg)</b>	35,0
<b>Dimensions L x W x H (mm)</b>	318 x 407 x 449
<b>Features</b>	Electronic governor, oil filter, full pressure lubrication, EFI
<b>Optional</b>	Rewind start, muffler, cyclonic air cleaner



\* All power levels are stated gross kilowatts per SAE J1940 as rated by Briggs & Stratton.

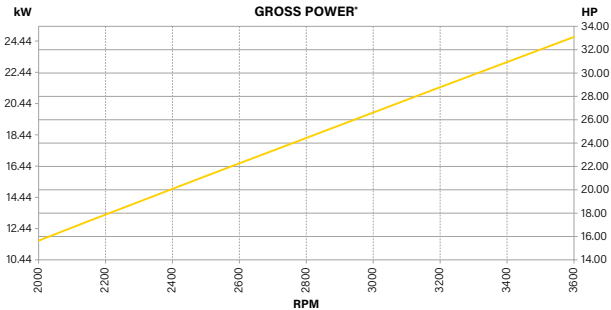
\*\* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

HORIZONTAL · V-TWIN EFI  
**VANGUARD® EFI 24,6 GROSS kW\***

HORIZONTAL · V-TWIN EFI



<b>Engine Type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)
<b>Model number</b>	54E1
<b>Gross Power kW (HP) @ 3'600 rpm</b>	24,6* (33,0)
<b>Displacement (cc)</b>	896
<b>Cylinder</b>	Cast iron sleeve
<b>Bore &amp; stroke (mm)</b>	85,5 x 78,0
<b>Fuel Tank Capacity (l)</b>	NA
<b>Oil Capacity (l)</b>	2,3
<b>Dry Weight (kg)</b>	56,7
<b>Dimensions L x W x H (mm)</b>	379 x 496 x 725
<b>Features</b>	Oil filter, full pressure lubrication, cyclonic air cleaner, EFI
<b>Optional</b>	Muffler, flat panel air cleaner



\* All power levels are stated gross kilowatts per SAE J1940 as rated by Briggs & Stratton.

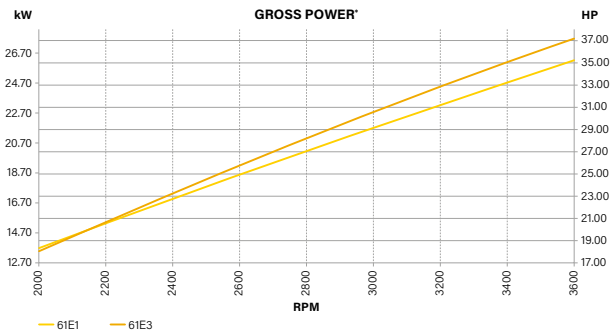
\*\* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

HORIZONTAL · V-TWIN EFI  
**VANGUARD® EFI 26,1 - 27,6 GROSS kW\***

HORIZONTAL · V-TWIN EFI



<b>Engine type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)	
<b>Model number</b>	61E1	61E3
<b>Gross Power kW (HP) @ 3'600 rpm</b>	26,1* (35,0)	27,6* (37,0)
<b>Displacement (cc)</b>	993	
<b>Cylinder</b>	Cast iron sleeve	
<b>Bore &amp; stroke (mm)</b>	85,5 x 86,5	
<b>Fuel tank capacity (l)</b>	NA	
<b>Oil capacity (l)</b>	2,3	
<b>Dry weight (kg)</b>	56,7	
<b>Dimensions L x W x H (mm)</b>	379 x 496 x 725	
<b>Features</b>	Oil filter, full pressure lubrication, cyclonic air cleaner, EFI	
<b>Optional</b>	Muffler, flat panel air cleaner	



\* All power levels are stated gross kilowatts per SAE J1940 as rated by Briggs & Stratton.

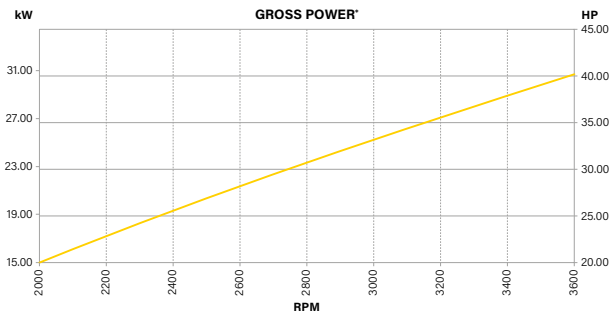
\*\* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

HORIZONTAL · V-TWIN EFI/ETC  
**VANGUARD® EFI / ETC 29,9 GROSS kW\***

HORIZONTAL · V-TWIN EFI/ETC



<b>Engine type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)
<b>Model number</b>	61G2
<b>Gross Power kW (HP) @ 3'600 rpm</b>	29,9* (40,0)
<b>Displacement (cc)</b>	993
<b>Cylinder</b>	Cast iron sleeve
<b>Bore &amp; stroke (mm)</b>	85,5 x 86,5
<b>Fuel tank capacity (l)</b>	NA
<b>Oil capacity (l)</b>	2,3
<b>Dry weight (kg)</b>	56,7
<b>Dimensions L x W x H (mm)</b>	379 x 496 x 725
<b>Features</b>	EFI / ETC (electronic throttle control), oil filter, full pressure lubrication, cyclonic air cleaner
<b>Optional</b>	Muffler, flat panel air cleaner



\* All power levels are stated gross kilowatts per SAE J1940 as rated by Briggs & Stratton.

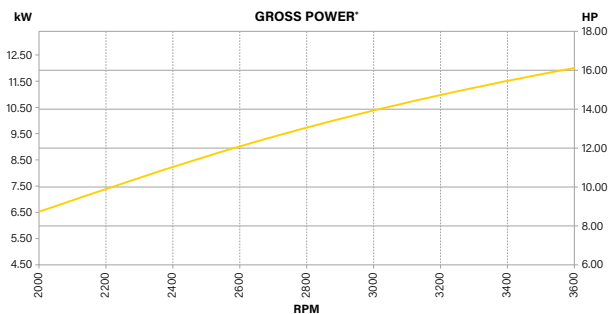
\*\* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

VERTICAL · V-TWIN  
**VANGUARD® 11,9 GROSS KW\***

VERTICAL · V-TWIN



<b>Engine type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)
<b>Model number</b>	3057
<b>Gross power kW (HP) @ 3'600 rpm</b>	11,9* (16,0)
<b>Displacement (cc)</b>	479
<b>Cylinder</b>	Cast iron sleeve
<b>Bore &amp; stroke (mm)</b>	68,0 x 66,0
<b>Fuel tank capacity (l)</b>	NA
<b>Oil capacity (l)</b>	1,6
<b>Dry weight (kg)</b>	32,4
<b>Dimensions L x W x H (mm)</b>	434 x 409 x 307
<b>Features</b>	Oil filter, full pressure lubrication
<b>Optional</b>	Rewind start



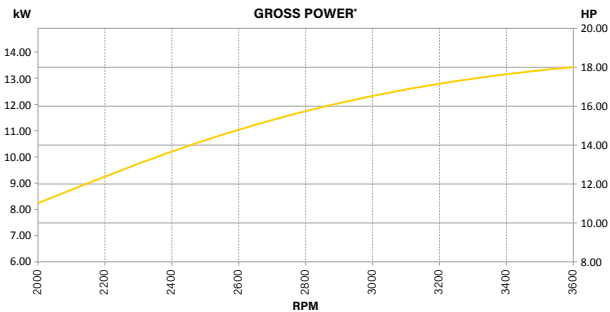
\* All power levels are stated gross kilowatts per SAE J1940 as rated by Briggs & Stratton.

\*\* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.





<b>Engine type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)
<b>Model number</b>	3567
<b>Gross power kW (HP) @ 3'600 rpm</b>	13,4* (18,0)
<b>Displacement (cc)</b>	570
<b>Cylinder</b>	Cast iron sleeve
<b>Bore &amp; stroke (mm)</b>	72,0 x 70,0
<b>Fuel tank capacity (l)</b>	NA
<b>Oil capacity (l)</b>	1,6
<b>Dry weight (kg)</b>	33,3
<b>Dimensions L x W x H (mm)</b>	434 x 409 x 345
<b>Features</b>	Oil filter, full pressure lubrication
<b>Optional</b>	Rewind start, Electronic Fuel management (EFM)



\* All power levels are stated gross kilowatts per SAE J1940 as rated by Briggs & Stratton.

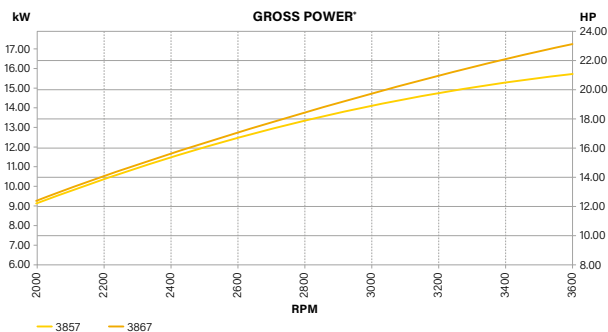
\*\* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

VERTICAL · V-TWIN  
**VANGUARD® 15,7 - 17,2 GROSS kW\***

VERTICAL · V-TWIN



<b>Engine type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)	
<b>Model number</b>	3857	3867
<b>Gross power kW (HP) @ 3'600 rpm</b>	15,7* (21,0)	17,2* (23,0)
<b>Displacement (cc)</b>	627	
<b>Cylinder</b>	Cast iron sleeve	
<b>Bore &amp; stroke (mm)</b>	75,5 x 70,0	
<b>Fuel tank capacity (l)</b>	NA	
<b>Oil capacity (l)</b>	1,6	
<b>Dry weight (kg)</b>	35,0	
<b>Dimensions L x W x H (mm)</b>	449 x 409 x 345	
<b>Features</b>	Oil filter, full pressure lubrication	
<b>Optional</b>	Rewind start	



\* All power levels are stated gross kilowatts per SAE J1940 as rated by Briggs & Stratton.

\*\* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

VERTICAL · V-TWIN  
**VANGUARD® 17,9 - 19,4 GROSS kW\***

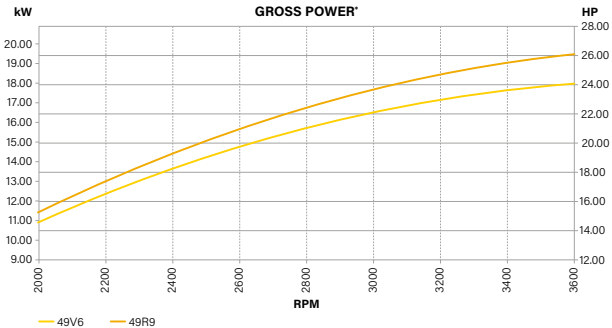
VERTICAL · V-TWIN



Optional Feature



<b>Engine type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)	
<b>Model number</b>	49V6	49R9
<b>Gross power kW (HP) @ 3'600 rpm</b>	17,9* (24,0)	19,4* (26,0)
<b>Displacement (cc)</b>	810	
<b>Cylinder</b>	Cast iron sleeve	
<b>Bore &amp; stroke (mm)</b>	83,8 x 73,4	
<b>Fuel tank capacity (l)</b>	NA	
<b>Oil capacity (l)</b>	1,98	
<b>Dry weight (kg)</b>	41,7	
<b>Dimensions L x W x H (mm)</b>	505 x 462 x 582	
<b>Features</b>	Oil filter, full pressure lubrication, cyclonic air cleaner	
<b>Optional</b>	Oil Guard™	



\* All power levels are stated gross kilowatts per SAE J1940 as rated by Briggs & Stratton.  
 \*\* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

VERTICAL · V-TWIN EFI  
**VANGUARD® EFI 20,9 GROSS kW\***

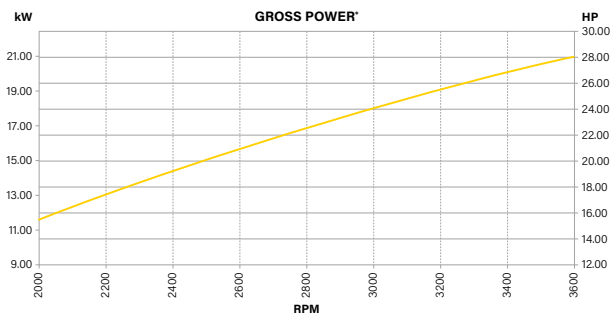
VERTICAL · V-TWIN EFI



Optional Feature



<b>Engine type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)
<b>Model number</b>	49E8
<b>Gross power kW (HP) @ 3'600 rpm</b>	20,9* (28,0)
<b>Displacement (cc)</b>	810
<b>Cylinder</b>	Cast iron sleeve
<b>Bore &amp; stroke (mm)</b>	83,8 x 73,4
<b>Fuel tank capacity (l)</b>	NA
<b>Oil capacity (l)</b>	1,98
<b>Dry weight (kg)</b>	41,7
<b>Dimensions L x W x H (mm)</b>	505 x 462 x 582
<b>Features</b>	Oil filter, full pressure lubrication, cyclonic air cleaner, EFI
<b>Optional</b>	Oil Guard™, flat panel air cleaner, integrated air cleaner



\* All power levels are stated gross kilowatts per SAE J1940 as rated by Briggs & Stratton.

\*\* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

# VANGUARD®

## Commercial Battery Packs

The next generation  
of integrated power.



Integrated battery system



\* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

\*\* The battery pack is silent, however the application itself may make noise.

LITHIUM-ION BATTERY PACKS  
**NEW 3,8kWh COMMERCIAL BATTERY PACK**

LITHIUM-ION BATTERY PACKS



<b>Battery type</b>	48V 3.8kWh Lithium-Ion battery pack, integrated battery management system
<b>Model number</b>	TBC
<b>Nominal Voltage (V)</b>	51,6
<b>Top Voltage (V)</b>	58,8
<b>Cut-off Voltage (V)</b>	35,0
<b>Nominal Capacity / Energy (Ah / kWh)</b>	73,8 / 3,80
<b>Weight (kg)</b>	46,8
<b>Durability (cycles) at 80% capacity retention</b>	Up to 2000
<b>Charge time (hours)</b>	Less than 4,5 hours
<b>Dimensions L x W x H (mm)</b>	876 x 283 x 264
<b>Features</b>	Battery Management System, dual CANbus communication, plug-in ready charging system, aluminium diecast enclosure



3-year warranty applies to battery and charger.

\* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

LITHIUM-ION BATTERY PACKS  
**5kWh COMMERCIAL BATTERY PACK**

LITHIUM-ION BATTERY PACKS



<b>Battery type</b>	48V 5kWh Lithium-Ion battery pack, integrated battery management system
<b>Model number</b>	80095528
<b>Nominal Voltage (V)</b>	51,6
<b>Top Voltage (V)</b>	58,8
<b>Cut-off Voltage (V)</b>	35,0
<b>Nominal Capacity / Energy (Ah / kWh)</b>	98,7 / 5,09
<b>Weight (kg)</b>	49,9
<b>Durability (cycles) at 80% capacity retention</b>	Up to 2000
<b>Charge time (hours)</b>	5,3 hours
<b>Dimensions L x W x H (mm)</b>	591 x 266 x 366
<b>Features</b>	Battery Management System, dual CANbus communication, plug-in ready charging system, HDPE pack enclosure, aluminium outer shell, cast aluminium base  Up to 16 batteries can be combined in parallel for additional capacity



**5kWh BATTERY**



**BATTERY MANAGEMENT SYSTEM (BMS)**



**CHARGER**

3-year warranty applies to battery and charger.

See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

LITHIUM-ION BATTERY PACKS  
**NEW 10kWh COMMERCIAL BATTERY PACK**

AVAILABLE  
 JULY 2021

LITHIUM-ION BATTERY PACKS



<b>Battery type</b>	48V 10kWh Lithium-Ion battery pack, integrated battery management system
<b>Model number</b>	TBC
<b>Nominal Voltage (V)</b>	51,6
<b>Top Voltage (V)</b>	58,8
<b>Cut-off Voltage (V)</b>	35,0
<b>Nominal Capacity / Energy (Ah / kWh)</b>	197,4 / 10,17
<b>Weight (kg)</b>	99
<b>Durability (cycles) at 80% capacity retention</b>	Up to 2000
<b>Charge time (hours)</b>	9,5 hours
<b>Dimensions L x W x H (mm)</b>	624 x 439 x 366
<b>Features</b>	Battery Management System, dual CANbus communication, plug-in ready charging system, HDPE pack enclosure, aluminium outer shell, cast aluminium base  Up to 4 batteries can be combined in parallel for additional capacity



**10kWh BATTERY**



**BATTERY MANAGEMENT SYSTEM (BMS)**



**CHARGER**

3-year warranty applies to battery and charger.

\* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.



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### **Power Ratings Disclaimer**

Power Ratings: The gross power rating for individual petrol engine models is labeled in accordance with SAE (Society of Automotive Engineers) code J1940 Small Engine Power & Torque Rating Procedure, and is rated in accordance with SAE J1995. Torque values are derived at 2'600 rpm / 3'600 rpm; horsepower values are derived at 3'600 rpm; kilowatt values are derived at 3'600 rpm. The gross power curves can be viewed at [www.BriggsandStratton.com](http://www.BriggsandStratton.com). Net power values are taken with exhaust and air cleaner installed whereas gross power values are collected without these attachments. Actual gross engine power will be higher than net engine power and is affected by, among other things, ambient operating conditions and engine-to-engine variability. Given the wide array of products on which engines are placed, the petrol engine may not develop the rated gross power when used in a given piece of power equipment. This difference is due to a variety of factors including, but not limited to, the variety of engine components (air cleaner, exhaust, charging, cooling, carburetor, fuel pump, etc.), application limitations, ambient operating conditions (temperature, humidity, altitude), and engine-to-engine variability. Due to manufacturing and capacity limitations, Briggs & Stratton may substitute an engine of higher rated power for another engine.

## VANGUARD® Horizontal Shaft / Vertical Shaft Commercial Engines and Commercial Battery Packs

Fold out to view the specification reference tables for VANGUARD® horizontal and vertical shaft engines as well as commercial battery packs.

# VANGUARD®

ENGINE APPROVED

## Powering performance in the toughest conditions.

### Fully Synthetic Commercial Grade Engine Oil 15W-50 API-SN

Use the commercial grade engine oil that is as tough as the conditions you may encounter.

- > REDUCED OIL CONSUMPTION
- > LONGER OIL LIFE
- > ANTI-WEAR PROTECTION
- > FOR OPERATING TEMPERATURES UP TO 50°C
- > COLD STARTING AS LOW AS -10°C\*



#100007V

#100009V

\* For use at lower temperatures use Briggs&Stratton® winter oil 5W30 API-SN/CF.  
Also available in a 60L barrel

Features Key:

- Not available
- \$ Standard
- o Optional

**VANGUARD® Horizontal Shaft Commercial Engines**

Model Number	Displacement (cc)	Fuel Tank (l)	Dry Weight (kg)	Oil Capacity (l)	Dimensions (mm) L x W x H	Cast Iron Sleeve Cylinders	Governor			Fuel		Air Cleaner				Starting		Ignition		Lubrication		Oil Guard™	TransportGuard™
							Mechanical Governor	Electronic Governor	Electronic Throttle Control	Carburetor	Electronic Fuel Injection	Integrated Cyclonic Air Cleaner	Paper Air Cleaner (Vyal) With Foam	Pre-Cleaner (Dual Element)	Automotive Style Air Cleaner	With Foam Pre-Cleaner (Dual Element)	Centrifugal Multi Stage Cyclonic Air Cleaner	Manual Choke	Electronic Fuel Management (EFM)	Magnatron Ignition	ECM Fired Ignition Coil		
VANGUARD® 160 – 3,7 Gross kW	169	3,1	17,9	0,6	274 x 366 x 361	\$	\$	-	-	\$	-	-	-	-	-	\$	-	\$	-	\$	-	o	
VANGUARD® 200 – 4,8 Gross kW	203	3,1	17,9	0,6	289 x 375 x 361	\$	\$	-	-	\$	-	-	-	-	-	\$	-	\$	-	\$	-	o	
VANGUARD® 6,0 Gross kW	191L	3,6	25,9	0,8	314 x 422 x 403	\$	\$	-	-	\$	-	-	-	-	-	\$	-	\$	-	\$	-	-	
VANGUARD® 7,5 Gross kW	191L	3,6	25,9	0,8	314 x 422 x 403	\$	\$	-	-	\$	-	-	-	-	-	\$	-	\$	-	\$	-	-	
VANGUARD® 400 – 10,4 Gross kW	25V3	408	6,1	35,5	0,94	363 x 455 x 460	\$	\$	-	-	\$	-	-	-	-	\$	-	\$	-	\$	-	o	
VANGUARD® 10,4 Gross kW	2964	479	0	32,7	1,7	279 x 410 x 438	\$	\$	-	-	\$	-	-	-	-	\$	-	\$	-	\$	-	-	
VANGUARD® 11,9 Gross kW	3054	479	0	32,7	1,7	279 x 410 x 438	\$	\$	-	-	\$	-	-	-	-	\$	-	\$	-	\$	-	-	
VANGUARD® 13,4 Gross kW	3564	570	0	33,6	1,7	318 x 410 x 438	\$	\$	-	-	\$	-	-	-	-	\$	o	\$	o	\$	-	-	
VANGUARD® 15,7 Gross kW	3854	627	0	35,0	1,7	318 x 407 x 449	\$	\$	-	-	\$	-	-	-	-	\$	o	\$	o	\$	-	-	
VANGUARD® 17,2 Gross kW	3864	627	0	35,0	1,7	318 x 407 x 449	\$	\$	-	-	\$	-	-	-	-	\$	o	\$	o	\$	-	-	
VANGUARD® 18,7 Gross kW	5404	896	-	56,8	2,3	379 x 496 x 725	\$	\$	-	-	\$	-	-	-	-	\$	o	\$	o	\$	-	-	
VANGUARD® 20,1 Gross kW	5414	896	-	56,8	2,3	379 x 496 x 725	\$	\$	-	-	\$	-	-	-	-	\$	o	\$	o	\$	-	-	
VANGUARD® 21,6 Gross kW	5424	896	-	56,8	2,3	379 x 496 x 725	\$	\$	-	-	\$	-	-	-	-	\$	o	\$	o	\$	-	-	
VANGUARD® 23,1 Gross kW	5434	896	-	56,8	2,3	379 x 496 x 725	\$	\$	-	-	\$	-	-	-	-	\$	o	\$	o	\$	-	-	
VANGUARD® 24,6 Gross kW	6114	983	-	56,8	2,3	379 x 496 x 725	\$	\$	-	-	\$	-	-	-	-	\$	o	\$	o	\$	-	-	
VANGUARD® 26,1 Gross kW	6134	983	-	56,8	2,3	379 x 496 x 725	\$	\$	-	-	\$	-	-	-	-	\$	o	\$	o	\$	-	-	

All VANGUARD® engines are stated gross kilowatt at 3'600 rpm per SAE J1940 as rated by Briggs & Stratton. † For turf applications only. \* Oil Guard™ allows 45° inclination.

Features Key:

- Not available
- \$ Standard
- 0 Optional

Model Number	Displacement (cc)	Fuel Tank (l)	Dry Weight (kg)	Oil Capacity (l)	Dimensions (mm) L x W x H	Cast Iron Sleeve Cylinders	Governor			Fuel		Air Cleaner				Starting		Ignition		Lubrication		Oil Guard™	45° Inclination Package
							Mechanical Governor	Electronic Governor	Electronic Throttle Control	Carburetor	Electronic Fuel Injection	Integrated Cyclonic Air Cleaner	Paper Air Cleaner (Oval) With Foam Pre-Cleaner (Dual Element)	Automotive Style Air Cleaner With Foam Pre-Cleaner (Dual Element)	Centrifugal Multi Stage Cyclonic Air Cleaner	Manual Choke	Electronic Fuel Management (EFM)	Magneton Ignition	ECM Fired Ignition Coil	Spash Lubrication	Full Pressure Lubrication With Oil Filter		
<b>WANGUARD® Horizontal Shaft Commercial Engines</b>																							
VANGUARD® EFI 17,2 Gross kW	38E3 627	-	35,0	1,7	318 x 407 x 449	\$	-	\$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VANGUARD® EFI 24,6 Gross kW	54E1 896	-	56,7	2,3	379 x 496 x 725	\$	\$	-	-	\$	-	0	\$	-	-	-	-	-	-	-	-	-	
VANGUARD® EFI 26,1 Gross kW	61E1 993	-	56,7	2,3	379 x 496 x 725	\$	\$	-	-	\$	-	0	\$	-	-	-	-	-	-	-	-	-	
VANGUARD® EFI 27,6 Gross kW	61E3 993	-	56,7	2,3	379 x 496 x 725	\$	\$	-	-	\$	-	0	\$	-	-	-	-	-	-	-	-	-	
VANGUARD® EFI/ETC 29,9 Gross kW	61G2 993	-	56,7	2,3	379 x 496 x 725	\$	-	\$	-	-	-	0	\$	-	-	-	-	-	-	-	-	-	
<b>WANGUARD® Vertical Shaft Commercial Engines</b>																							
VANGUARD® 11,9 Gross kW	3057 479	-	32,4	1,6	434 x 409 x 307	\$	\$	-	-	\$	-	-	-	-	-	-	-	-	-	-	-	-	
VANGUARD® 13,4 Gross kW	3567 570	-	33,3	1,6	434 x 409 x 345	\$	\$	-	-	\$	-	-	-	-	-	-	-	-	-	-	-	-	
VANGUARD® 15,7 Gross kW	3857 627	-	35,0	1,6	449 x 409 x 345	\$	\$	-	-	\$	-	-	-	-	-	-	-	-	-	-	-	-	
VANGUARD® 17,2 Gross kW	3867 627	-	35,0	1,6	449 x 409 x 345	\$	\$	-	-	\$	-	-	-	-	-	-	-	-	-	-	-	-	
VANGUARD® 17,9 Gross kW	49V6 810	-	41,7	1,98	505 x 462 x 582	\$	\$	-	-	\$	-	-	-	-	-	-	-	-	-	-	-	0*	
VANGUARD® 19,4 Gross kW	49F9 810	-	41,7	1,98	505 x 462 x 582	\$	\$	-	-	\$	-	-	-	-	-	-	-	-	-	-	-	0*	
VANGUARD® EFI 20,9 Gross kW	49E8 810	-	41,7	1,98	505 x 462 x 582	\$	\$	-	-	\$	0	-	0	\$	-	-	-	-	-	-	-	0*	

All WANGUARD® engines are stated gross kilowatt at 3'600 rpm per SAE J1940 as rated by Briggs & Stratton. \* Oil Guard™ allows 45° inclination.

Features Key:  
 - Not available  
 s Standard  
 o Optional

	Model Number	Nominal Voltage (V)	Top Voltage (V)	Cut Off Voltage (V)	Nominal Capacity / Energy (Ah / kWh)	Weight (kg)	Durability (cycles) at 80% Capacity Retention	Charge Time (hrs)	Dimensions (mm) L x W x H	Battery Management System	Dual CANbus Communication	Plug-In Ready Charging System	HDPE Pack Enclosure	Aluminum Outer Shell	Aluminum Diecast Enclosure	Parallel Capable
<b>VANGUARD® Commercial Battery Packs</b>																
NEW VANGUARD® 3.8kWh Commercial Battery Pack	TBC	51,6	58,8	35	73,8 / 3,80	46,8	2000	< 4,5	876 x 283 x 264	s	s	s	s	s	s	No
VANGUARD® 5kWh Commercial Battery Pack	80095528	51,6	58,8	35	98,7 / 5,09	49,9	2000	5,3	591 x 266 x 366	s	s	s	s	s	s	Yes
NEW VANGUARD® 10kWh Commercial Battery Pack	TBC	51,6	58,8	35	197,4 / 10,17	99	2000	9,5	624 x 439 x 366	s	s	s	s	s	s	Yes

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**VANGUARD®**