

## VANGUARD® Horizontal / Vertical Shaft Commercial Engines

Fold out to view the specification reference tables for VANGUARD® horizontal and vertical shaft engines.



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**BOELS • DOLMANS**  
CYCLING TEAM

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2021 VANGUARD® Power Guide -  
Europe, Middle East and Africa



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CORPORATION

INNOVATION

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# VANGUARD



For more information about the 3-year limited global warranty visit [www.VANGUARDPOWER.com](http://www.VANGUARDPOWER.com)



Features Key:

- Not available
- s Standard
- o 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			Carburetor	Fuel				Air Cleaner				Starting		Ignition		Lubrication	
							Mechanical Governor	Electronic Governor	Electronic Throttle Control		Electronic Fuel Injection	Integrated Cyclonic Air Cleaner	Paper Air Cleaner (Optional) 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	Splash Lubrication	Full Pressure Lubrication With Oil Filter	TransportGuard™	Oil Guard™	45° Inclinable Package

**VANGUARD® Horizontal Shaft Commercial Engines**

NEW VANGUARD® 160 – 3,7 Gross kW	10V3	169	3,1	16,8	0,6	274 x 366 x 361	s	s	-	-	s	-	s	-	-	-	-	s	-	s	-	s	-	s	-	s	-	o	
VANGUARD® 200 – 4,8 Gross kW	12V3	203	3,1	16,8	0,6	289 x 375 x 361	s	s	-	-	s	-	s	-	-	-	-	s	-	s	-	s	-	s	-	s	-	o	
VANGUARD® 6,0 Gross kW	19L1	305	3,6	25,9	0,8	318 x 421 x 406	s	s	-	-	s	-	-	s	-	-	-	s	-	s	-	s	-	s	-	s	-	o	
VANGUARD® 7,5 Gross kW	19L2	305	3,6	25,9	0,8	318 x 421 x 406	s	s	-	-	s	-	-	s	-	-	-	s	-	s	-	s	-	s	-	s	-	o	
VANGUARD® 400 – 10,4 Gross kW	25V3	408	6,1	35,5	0,94	359 x 444 x 459	s	s	-	-	s	-	s	-	-	-	-	s	-	s	-	s	-	s	-	s	-	o	
VANGUARD® 10,4 Gross kW	2964	479	o	32,7	1,7	279 x 410 x 438	s	s	-	-	s	-	-	-	s	-	-	s	-	s	-	s	-	s	-	s	-	o	
VANGUARD® 11,9 Gross kW	3054	479	o	32,7	1,7	279 x 410 x 438	s	s	-	-	s	-	-	s	-	-	-	s	-	s	-	s	-	s	-	s	-	o	
VANGUARD® 13,4 Gross kW	3564	570	o	33,6	1,7	318 x 410 x 438	s	s	-	-	s	-	-	-	s	o	-	s	-	s	-	s	-	s	-	s	-	o	
VANGUARD® 15,7 Gross kW	3854	627	o	35,0	1,7	318 x 407 x 449	s	s	-	-	s	-	-	-	s	o	-	s	-	s	-	s	-	s	-	s	-	o	
VANGUARD® 17,2 Gross kW	3864	627	o	35,0	1,7	318 x 407 x 449	s	s	-	-	s	-	-	-	s	o	-	s	-	s	-	s	-	s	-	s	-	o	
VANGUARD® 18,7 Gross kW	5404	896	-	56,8	2,3	379 x 496 x 725	s	s	-	-	s	-	-	-	o	s	-	s	-	s	-	s	-	s	-	s	-	o	
VANGUARD® 20,1 Gross kW	5414	896	-	56,8	2,3	379 x 496 x 725	s	s	-	-	s	-	-	-	o	s	-	s	-	s	-	s	-	s	-	s	-	o	
VANGUARD® 21,6 Gross kW	5424	896	-	56,8	2,3	379 x 496 x 725	s	s	-	-	s	-	-	-	o	s	-	s	-	s	-	s	-	s	-	s	-	o	
VANGUARD® 23,1 Gross kW	5434	896	-	56,8	2,3	379 x 496 x 725	s	s	-	-	s	-	-	-	o	s	-	s	-	s	-	s	-	s	-	s	-	o	
VANGUARD® 24,6 Gross kW	6114	993	-	56,8	2,3	379 x 496 x 725	s	s	-	-	s	-	-	-	o	s	-	s	-	s	-	s	-	s	-	s	-	o	
VANGUARD® 26,1 Gross kW	6134	993	-	56,8	2,3	379 x 496 x 725	s	s	-	-	s	-	-	-	o	s	-	s	-	s	-	s	-	s	-	s	-	o	
VANGUARD® EFI 17,2 Gross kW	38E3	627	-	35,0	1,7	318 x 407 x 449	s	-	s	-	-	s	-	-	s	o	-	-	-	s	-	-	s	-	s	-	s	-	o
VANGUARD® EFI 24,6 Gross kW	54E1	896	-	56,7	2,3	379 x 496 x 725	s	s	-	-	-	s	-	-	o	s	-	-	-	s	-	-	s	-	s	-	s	-	o
VANGUARD® EFI 26,1 Gross kW	61E1	993	-	56,7	2,3	379 x 496 x 725	s	s	-	-	-	s	-	-	o	s	-	-	-	s	-	-	s	-	s	-	s	-	o
VANGUARD® EFI 27,6 Gross kW	61E3	993	-	56,7	2,3	379 x 496 x 725	s	s	-	-	-	s	-	-	o	s	-	-	-	s	-	-	s	-	s	-	s	-	o
NEW VANGUARD® EFI/ETC 29,9 Gross kW	61G2	993	-	56,7	2,3	379 x 496 x 725	s	-	-	s	-	-	-	-	o	s	-	-	-	s	-	-	s	-	s	-	s	-	o

**VANGUARD® Vertical Shaft Commercial Engines**

VANGUARD® 11,9 Gross kW	3057	479	-	32,4	1,7	429 x 404 x 310	s	s	-	-	s	-	-	-	s	-	-	s	-	-	-	-	-	-	-	-	-	-
VANGUARD® 13,4 Gross kW	3567	570	-	33,3	1,7	439 x 406 x 344	s	s	-	-	s	-	-	-	s	-	-	s	o	-	-	-	-	-	-	-	-	-
VANGUARD® 15,7 Gross kW	3857	627	-	35,0	1,7	443 x 406 x 344	s	s	-	-	s	-	-	-	s	-	-	s	-	-	-	-	-	-	-	-	-	-
VANGUARD® 17,2 Gross kW	3867	627	-	35,0	1,7	443 x 406 x 344	s	s	-	-	s	-	-	-	s	-	-	s	-	-	-	-	-	-	-	-	-	-
VANGUARD® 17,9 Gross kW	49V6	810	-	40,5	1,98	505 x 462 x 582	s	s	-	-	s	-	-	-	s	-	-	s	-	-	-	-	-	-	-	-	-	o
VANGUARD® 19,0 Gross kW	49R9	810	-	40,5	1,98	505 x 462 x 582	s	s	-	-	s	-	-	-	s	-	-	s	-	-	-	-	-	-	-	-	-	o
VANGUARD® EFI 19,4 Gross kW	49E7	810	-	40,5	1,98	505 x 462 x 582	s	s	-	-	-	s	-	-	o	s	-	-	-	-	-	-	-	-	-	-	-	o
VANGUARD® EFI 20,9 Gross kW	49E8	810	-	40,5	1,98	505 x 462 x 582	s	s	-	-	-	s	o	-	o	s	-	-	-	-	-	-	-	-	-	-	-	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.

Model Number	Nominal Voltage (V)	Top Voltage (V)	Cut off Voltage (V)	Capacity / Energy at Max Discharge (Ah / kWh)	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	Parallel Capable
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**VANGUARD® Commercial Battery Packs**

NEW 5kWh Commercial Battery Pack	80089283	50,4	57,4	37,5	90 / 4,5	100 / 5,0	45,0	2000	6	570 x 270 x 360	s	s	s	s	Yes
NEW 10kWh Commercial Battery Pack	TBC	50,4	57,4	37,5	180 / 9,0	200 / 10,0	90,0	2000	12	570 x 470 x 360	s	s	s	s	Yes

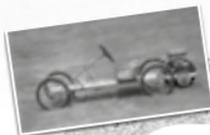


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### 1908

Briggs & Stratton<sup>®</sup> was founded by Stephen F. Briggs and Harold M. Stratton.



### 1920s - 1930s

We set a new standard in the automotive industry, selling the Flyer at a record low price. In 1928 we went public on the New York Stock Exchange.



### 1930s - 1950s

Established a nationwide service organisation using independent authorised distributors. Development of lightweight aluminum engines.



### 1950s - 1980s

Introduction of the first Small Block V-Twin engine. Development of a futuristic prototype vehicle, the Petrol / Electric Hybrid.



### 1980s - 2000s

Sale of the automotive component business to focus on power equipment. Introduction of the first BIG BLOCK™ V-Twin in the industry.



### 2000s - Present

Continue to develop and create innovative and reliable products.



# VANGUARD<sup>®</sup>

# Petrol Single Cylinder Engines Range

The Rental Engines.



Vanguard 200



Vanguard 400

A ground up designed OHV engine application engineered to deliver durable performance with lower TCO, easier starting, lower noise and vibration, and a reduced carbon footprint.

**Increased uptime. Reduced maintenance. This is productivity defined.**



# Petrol V-Twin EFI Engines

Undeniable Power.



NEW Vanguard EFI / ETC  
29,9 Gross kW

The Vanguard EFI systems are designed to prioritise the benefits of electronic fuel injection to maximise productivity where it matters most, in each application and environment to ensure top engine performance.

**It's EFI Done Right.**



**UP TO 25%  
FUEL SAVINGS\***

\* Closed-loop EFI system, fuel savings may vary based on operating conditions. \* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

# NEW Commercial Battery Packs

Leading a Revolution in Power.



The Vanguard Commercial Battery is a fully 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.**



**Fully-integrated Battery System. One solution - multiple applications.**



**BATTERY**



**CONTROLLER**



**CHARGER**

Discover more about Vanguard Commercial Battery Packs in pages 40 - 41.

\* 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\***



Discover more about the VANGUARD® single-cylinder engines range

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

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

# 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

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- » 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

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- » 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

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- » 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

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

## Unmatched service education

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- » 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.

# OIL GUARD™ SYSTEM



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.

# EFI

ELECTRONIC FUEL INJECTION

# ELECTRONIC FUEL MANAGEMENT

## Electronic Fuel Injection (EFI)

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



## Electronic Fuel Management (EFM)

A system that electronically monitors time, engine speed and temperature to simplify and optimize engine starting. EFM is an affordable, low service complexity, automotive style starting system.

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

# TRANSPORT GUARD™

## 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®

## European Stage 5 Emissions Compliant

✓ Exhaust emissions compliant

**Engineered to meet the highest  
industry emissions standards:**

✓ Evaporative emissions compliant

✓ Fewer oil changes = less oil waste



### VANGUARD® Horizontal Shaft Commercial Engines

17	<b>NEW</b> VANGUARD® 160 – 3,7 Gross kW Single cylinder, 4-stroke, air-cooled, OHV	10V3
18	VANGUARD® 200 – 4,8 Gross kW Single cylinder, 4-stroke, air-cooled, OHV	12V3
19	VANGUARD® 6,0 - 7,5 Gross kW Single cylinder, 4-stroke, air-cooled, OHV	19L1, 19L2
20	VANGUARD® 400 – 10,4 Gross kW Single cylinder, 4-stroke, air-cooled, OHV	25V3
24	VANGUARD® 10,4 - 11,9 Gross kW V-Twin, 4-stroke, air-cooled, OHV	2964, 3054
25	VANGUARD® 13,4 Gross kW V-Twin, 4-stroke, air-cooled, OHV	3564
26	VANGUARD® 15,7 - 17,2 Gross kW V-Twin, 4-stroke, air-cooled, OHV	3854, 3864
27	VANGUARD® 18,7 - 23,1 Gross kW V-Twin, 4-stroke, air-cooled, OHV	5404, 5414, 5424, 5434
28	VANGUARD® 24,6 - 26,1 Gross kW V-Twin, 4-stroke, air-cooled, OHV	6114, 6134
30	VANGUARD® EFI 17,2 Gross kW V-Twin, 4-stroke, air-cooled, OHV with EFI	38E3
31	VANGUARD® EFI 24,6 Gross kW V-Twin, 4-stroke, air-cooled, OHV with EFI	54E1
32	VANGUARD® EFI 26,1 - 27,6 Gross kW V-Twin, 4-stroke, air-cooled, OHV with EFI	61E1, 61E3
33	<b>NEW</b> VANGUARD® EFI / ETC 29,9 Gross kW V-Twin, 4-stroke, air-cooled, OHV with EFI	61G2

### VANGUARD® Vertical Shaft Commercial Engines

34	VANGUARD® 11,9 Gross kW V-Twin, 4-stroke, air-cooled, OHV	3057
35	VANGUARD® 13,4 Gross kW V-Twin, 4-stroke, air-cooled, OHV	3567
36	VANGUARD® 15,7 - 17,2 Gross kW V-Twin, 4-stroke, air-cooled, OHV	3857, 3867
37	VANGUARD® 17,9 - 19,4 Gross kW V-Twin, 4-stroke, air-cooled, OHV	49V6, 49R9
38	VANGUARD® EFI 19,4 - 20,9 Gross kW V-Twin, 4-stroke, air-cooled, OHV with EFI	49E7, 49E8

### VANGUARD® Commercial Battery Packs

40	<b>NEW</b> 5kWh Commercial Battery Pack 48V Lithium-Ion battery, integrated battery management system	80089283
41	<b>NEW</b> 10kWh Commercial Battery Pack 48V Lithium-Ion battery, integrated battery management system	TBC

# VANGUARD®

## THE RENTAL ENGINE



Discover Vanguard's  
commitment to rental

- ✓ 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-year commercial limited warranty<sup>#</sup>

"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)

AVAILABLE FROM  
APRIL 2020

COMMERCIAL · HORIZONTAL  
**NEW VANGUARD® 160 – 3,7 GROSS kW\***

HORIZONTAL · VANGUARD® · HORIZONTAL



<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>	16,8
<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

Start here...



Designed to operate up to 45° in any direction.

New breather assembly design and position.

Designed to optimise ease of starting  
in all temperatures:

**Summer and Winter!**



45°

\* 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.

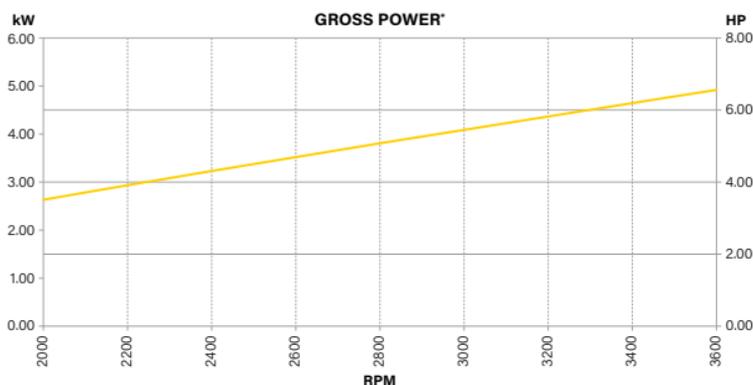
HORIZONTAL · COMMERCIAL  
**VANGUARD® 200 – 4,8 GROSS kW\***

HORIZONTAL · VANGUARD® · HORIZONTAL



<b>Engine type</b>	Single cylinder, 4-stroke, air cooled, OHV (Overhead Valve)
<b>Model number</b>	<b>12V3</b>
<b>Gross power kW (HP) @ 3'600 rpm</b>	<b>4,8* (6,5)</b>
<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>	16,8
<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

Start here...

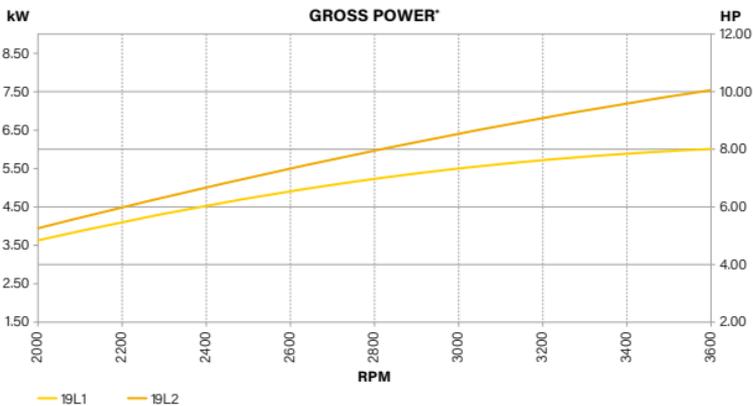


\* All power levels are stated gross kilowatts per SAE J1940 as rated by Briggs & Stratton.

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



<b>Engine type</b>	Single cylinder, 4-stroke, air cooled, OHV (Overhead Valve)	
<b>Model number</b>	<b>19L1</b>	<b>19L2</b>
<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>	318 x 421 x 406	
<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.

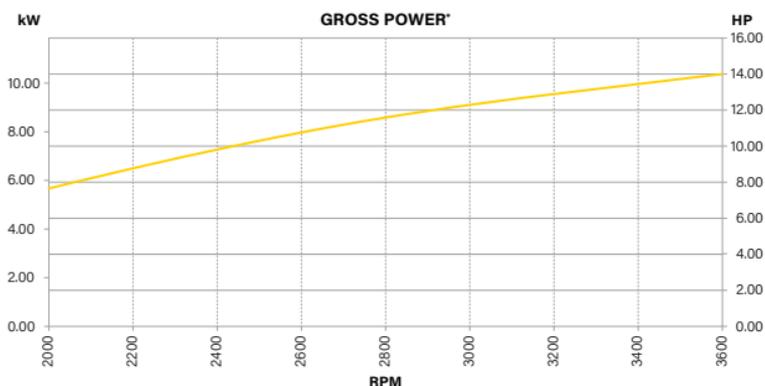
HORIZONTAL · COMMERCIAL  
**VANGUARD® 400 – 10,4 GROSS kW\***

HORIZONTAL · VANGUARD® · HORIZONTAL



<b>Engine type</b>	Single cylinder, 4-stroke, air cooled, OHV (Overhead Valve)
<b>Model number</b>	<b>25V3</b>
<b>Gross power kW (HP) @ 3'600 rpm</b>	<b>10,4* (14,0)</b>
<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>	359 x 444 x 459
<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

Start here...



\* 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.

# WANGUARD<sup>®</sup>

## 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

# **OIL GUARD**<sup>™</sup> SYSTEM



# 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.

# EFI

ELECTRONIC FUEL INJECTION

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



<sup>†</sup> Closed-loop EFI system, fuel savings may vary based on operating conditions.

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

HORIZONTAL · VANGUARD® · HORIZONTAL



<b>Engine type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)	
<b>Model number</b>	<b>2964</b>	<b>3054</b>
<b>Gross power kW (HP) @ 3'600 rpm</b>	<b>10,4*</b> (14,0)	<b>11,9*</b> (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	

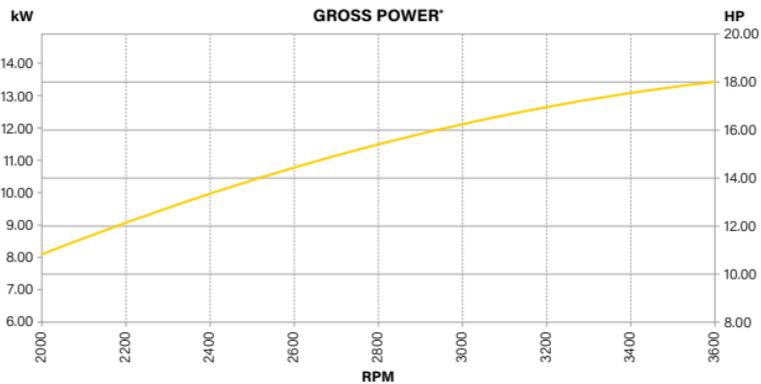


\* All power levels are stated gross kilowatts per SAE J1940 as rated by Briggs & Stratton.

\*\* 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>	<b>3564</b>
<b>Gross power kW (HP) @ 3'600 rpm</b>	<b>13,4* (18,0)</b>
<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, cyclonic air cleaner



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

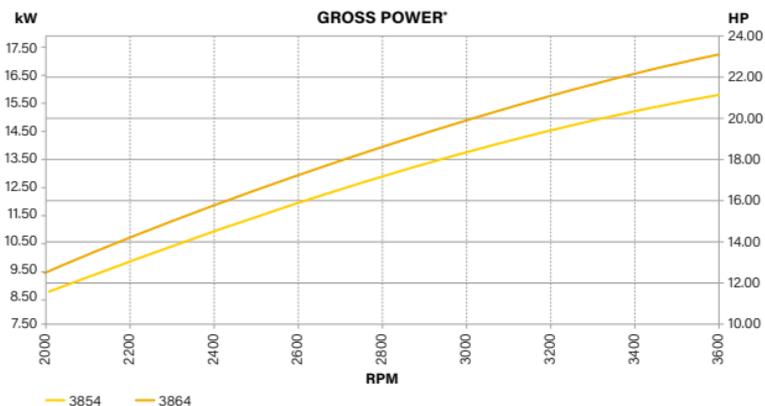
\*\* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

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

HORIZONTAL · VANGUARD® · HORIZONTAL



<b>Engine type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)	
<b>Model number</b>	<b>3854</b>	<b>3864</b>
<b>Gross power kW (HP) @ 3'600 rpm</b>	<b>15,7*</b> (21,0)	<b>17,2*</b> (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.



<b>Engine type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)			
<b>Model number</b>	<b>5404</b>	<b>5414</b>	<b>5424</b>	<b>5434</b>
<b>Gross power kW (HP) @ 3'600 rpm</b>	<b>18,7*</b> (25,0)	<b>20,1*</b> (27,0)	<b>21,6*</b> (29,0)	<b>23,1*</b> (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 · COMMERCIAL  
**VANGUARD® 24,6 - 26,1 GROSS kW\***

HORIZONTAL · VANGUARD® · HORIZONTAL



<b>Engine type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)	
<b>Model number</b>	<b>6114</b>	<b>6134</b>
<b>Gross power kW (HP) @ 3'600 rpm</b>	<b>24,6*</b> (33,0)	<b>26,1*</b> (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

**EFI**  
ELECTRONIC FUEL INJECTION

Our VANGUARD V-Twin EFI engines feature a closed-loop 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™**

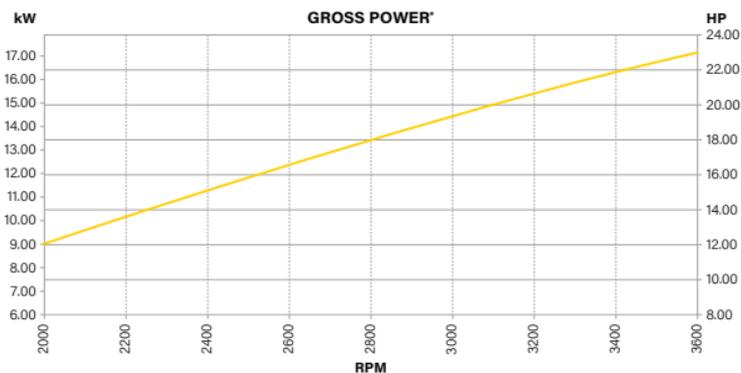
[www.VANGUARDPOWER.com](http://www.VANGUARDPOWER.com)

HORIZONTAL · COMMERCIAL  
**VANGUARD® EFI 17,2 GROSS kW\***

HORIZONTAL · VANGUARD® · HORIZONTAL



<b>Engine Type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)
<b>Model number</b>	<b>38E3</b>
<b>Gross Power kW (HP) @ 3'600 rpm</b>	<b>17,2* (23,0)</b>
<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.

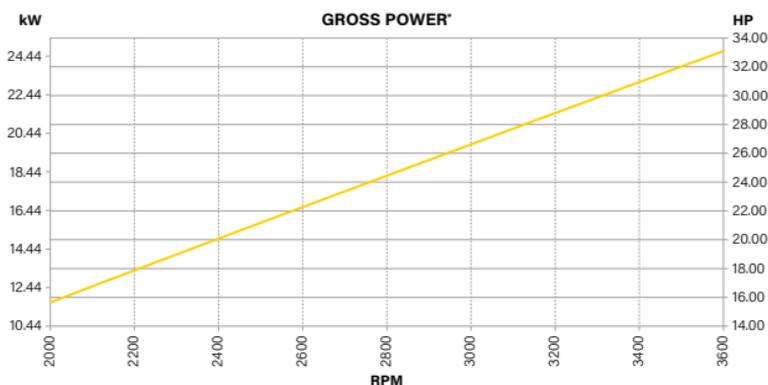
\*\* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

COMMERCIAL · HORIZONTAL  
**VANGUARD® EFI 24,6 GROSS kW\***

HORIZONTAL · VANGUARD® · HORIZONTAL



<b>Engine Type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)
<b>Model number</b>	<b>54E1</b>
<b>Gross Power kW (HP) @ 3'600 rpm</b>	<b>24,6* (33,0)</b>
<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 · COMMERCIAL  
**VANGUARD® EFI 26,1 - 27,6 GROSS kW\***

HORIZONTAL · VANGUARD® · HORIZONTAL



<b>Engine type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)	
<b>Model number</b>	<b>61E1</b>	<b>61E3</b>
<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.

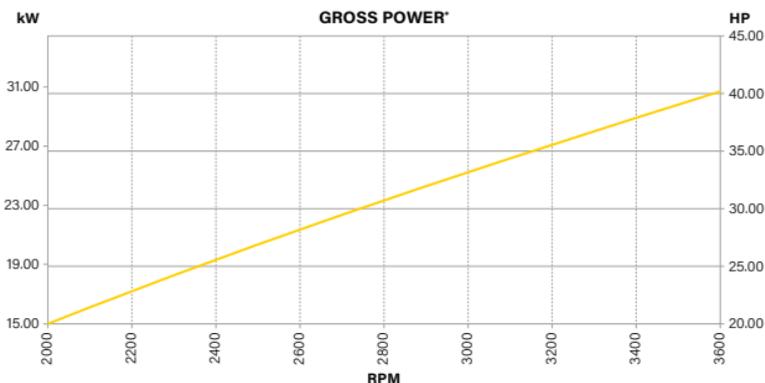
AVAILABLE FROM  
OCTOBER 2020

COMMERCIAL · HORIZONTAL  
**NEW VANGUARD EFI / ETC 29,9 GROSS kW\***



HORIZONTAL · VANGUARD® · HORIZONTAL

<b>Engine type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)
<b>Model number</b>	<b>61G2</b>
<b>Gross Power kW (HP) @ 3'600 rpm</b>	<b>29,9* (40,0)</b>
<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

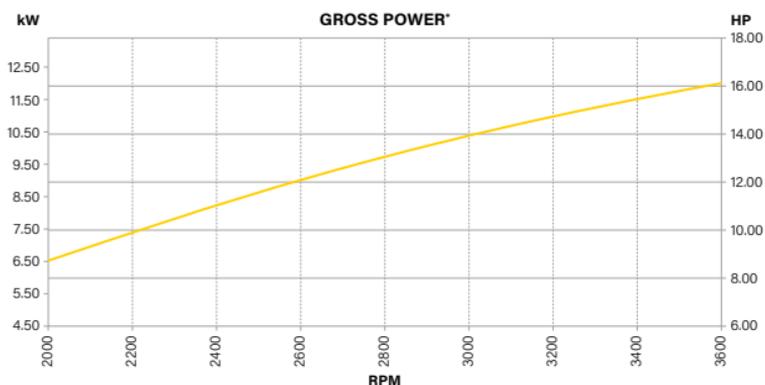


\* All power levels are stated gross kilowatts per SAE J1940 as rated by Briggs & Stratton.

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



<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>	<b>11,9*</b> <b>(16,0)</b>
<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>	32,4
<b>Dimensions L x W x H (mm)</b>	429 x 404 x 310
<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>	<b>3567</b>
<b>Gross power kW (HP) @ 3'600 rpm</b>	<b>13,4* (18,0)</b>
<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>	33,3
<b>Dimensions L x W x H (mm)</b>	439 x 406 x 344
<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 · COMMERCIAL  
**VANGUARD® 15,7 - 17,2 GROSS kW\***

VERTICAL · VANGUARD® · VERTICAL



<b>Engine type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)	
<b>Model number</b>	<b>3857</b>	<b>3867</b>
<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>	443 x 406 x 344	
<b>Features</b>	Oil filter, full pressure lubrication	



\* 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.



Optional Feature



<b>Engine type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)	
<b>Model number</b>	<b>49V6</b>	<b>49R9</b>
<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>	40,5	
<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 · COMMERCIAL  
**VANGUARD® EFI 19,4 - 20,9 GROSS kW\***

VERTICAL · VANGUARD® · VERTICAL



Optional Feature



<b>Engine type</b>	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)	
<b>Model number</b>	<b>49E7</b>	<b>49E8</b>
<b>Gross power kW (HP) @ 3'600 rpm</b>	19,4* (26,0)	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>	40,5	
<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 (available on model 49E8)	



\* 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.



Fully-integrated Battery System



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



<b>Battery type</b>	48V 5kWh Lithium-Ion battery pack, integrated battery management system
<b>Model number</b>	80089283
<b>Nominal Voltage (V)</b>	50,4
<b>Top Voltage (V)</b>	57,4
<b>Cut-off Voltage (V)</b>	37,5
<b>Capacity / Energy at Max Discharge (Ah / kWh)</b>	90 / 4,5
<b>Nominal Capacity / Energy (Ah / kWh)</b>	100 / 5,0
<b>Weight (kg)</b>	45
<b>Durability (cycles) at 80% capacity retention</b>	2000
<b>Charge time (hours)</b>	6
<b>Dimensions L x W x H (mm)</b>	570 x 270 x 360
<b>Features</b>	Battery Management System, dual CANbus communication, plug-in ready charging system, HDPE pack enclosure, Aluminium outer shell, cast Aluminium base.  Can be combined in parallel for additional capacity.



**BATTERY**  
 INC. INTEGRATED  
 BATTERY MANAGEMENT  
 SYSTEM



**CONTROLLER**



**CHARGER**

3-year warranty applies to battery, controller and charger.  
 \* See [www.vanguardpower.com](http://www.vanguardpower.com) for warranty details.

AVAILABLE FROM  
DECEMBER 2020

COMMERCIAL · BATTERY PACK  
**NEW 10kWh COMMERCIAL BATTERY PACK**

BATTERY PACK · VANGUARD® · BATTERY PACK



<b>Battery type</b>	48V 10kWh Lithium-Ion battery pack, integrated battery management system
<b>Model number</b>	TBC
<b>Nominal Voltage (V)</b>	50,4
<b>Top Voltage (V)</b>	57,4
<b>Cut-off Voltage (V)</b>	37,5
<b>Capacity / Energy at Max Discharge (Ah / kWh)</b>	180 / 9,0
<b>Nominal Capacity / Energy (Ah / kWh)</b>	200 / 10,0
<b>Weight (kg)</b>	90
<b>Durability (cycles) at 80% capacity retention</b>	2000
<b>Charge time (hours)</b>	12
<b>Dimensions L x W x H (mm)</b>	570 x 470 x 360
<b>Features</b>	Battery Management System, dual CANbus communication, plug-in ready charging system, HDPE pack enclosure, Aluminium outer shell, cast Aluminium base.  Can be combined in parallel for additional capacity.



**BATTERY**  
INC. INTEGRATED  
BATTERY MANAGEMENT  
SYSTEM



**CONTROLLER**



**CHARGER**

3-year warranty applies to battery, controller and charger.  
\* See www.vanguardpower.com for warranty details.

### **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.