

uni-power

ENGINES • TRANSMISSIONS • PARTS

TEL: 01371 875331 www.uni-power.co.uk

VANGUARD™ HORIZONTAL SHAFT V-TWIN
14.0 - 37.0 GROSS HP*

VANGUARD™
COMMERCIAL POWER 

POWERING A WORKING WORLD - COMMERCIAL GRADE ENGINES

POWERING A WORKING WORLD

HORIZONTAL SHAFT V-TWIN OHV ENGINES

INTRODUCTION

Vanguard™ V-Twin engines have been developed to perform in the most demanding commercial applications, delivering power, performance and reliability. Application-engineered to power heavy duty equipment, these engines feature a number of advanced technologies and integrated components which ensure the most efficient and durable power source for the challenges in a commercial world. Backed by an industry leading global after sales and support network, Vanguard V-Twin commercial grade engines will keep delivering the performance you can count on, around the clock.

KEY FEATURES

OVERHEAD VALVE TECHNOLOGY

- Combustion chamber performance is optimised for enhanced fuel economy with lowered emissions.
- Reduced fuel consumption leads to lowered operating costs.
- CO² and NO^x levels are lowered thanks to improved emissions control.

ACOUSTICALLY DESIGNED MUFFLER SYSTEMS

- Improved tonal quality and lowered noise levels allow the operator to work at safe levels for longer periods of time (Mufflers are optional features).

DONALDSON CYCLONIC AIR-CLEANER

- Cyclonic air cleaner provides maximum engine protection, especially under dirty and dusty conditions.
- Flat panel air cleaner system optional.

MAGNETRON® ELECTRONIC IGNITION

- Quick, dependable starting with no maintenance required.

OPTIMIZED CUBIC DISPLACEMENT

- Equipment productivity is boosted with greater power and torque from the engine.

ADVANCED DEBRIS MANAGEMENT SYSTEMS

- Debris is effectively controlled to allow for better airflow and engine cooling.
- Overall maintenance and equipment downtime is reduced.



POWERING A WORKING WORLD

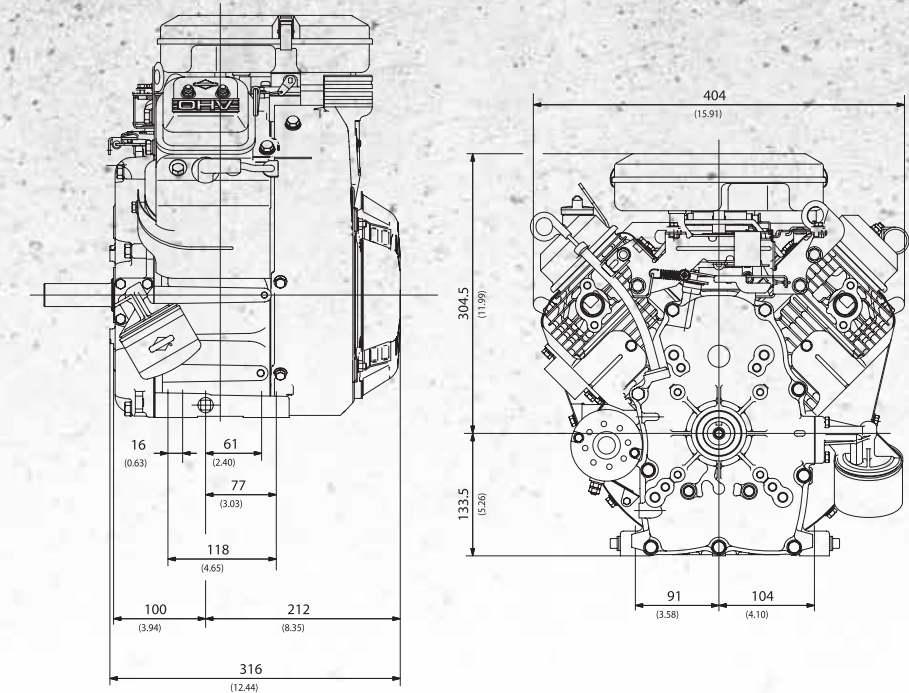
ENGINE TECHNICAL INFORMATION

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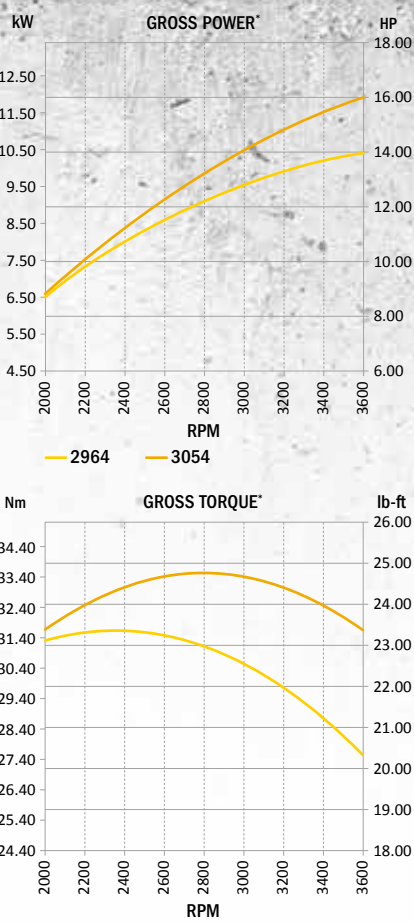
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VANGUARD™ HORIZONTAL SHAFT V-TWIN 14.0 - 16.0 GROSS HP*

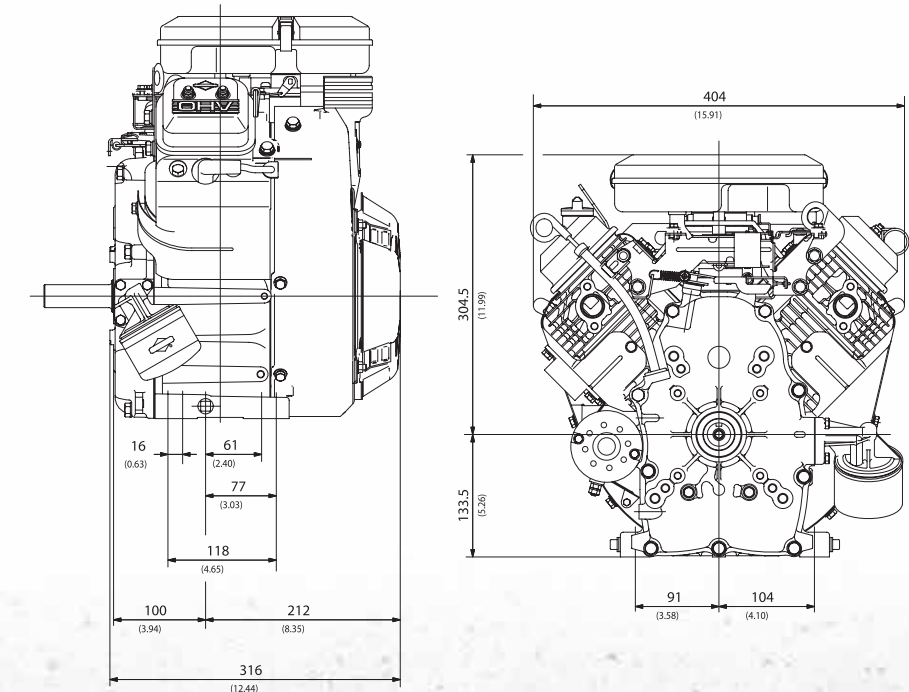


	FUEL CONSUMPTION IN LITRES PER HOUR**			
	FULL LOAD:	2964	3054	
	LITRES:	5,1	5,4	

* All power levels are stated gross HP at 3600rpm per SAE1940 as rated by Briggs & Stratton.
** (Load @ 3'600 rpm). Fuel consumption is depending on engine configuration, application and operating conditions.

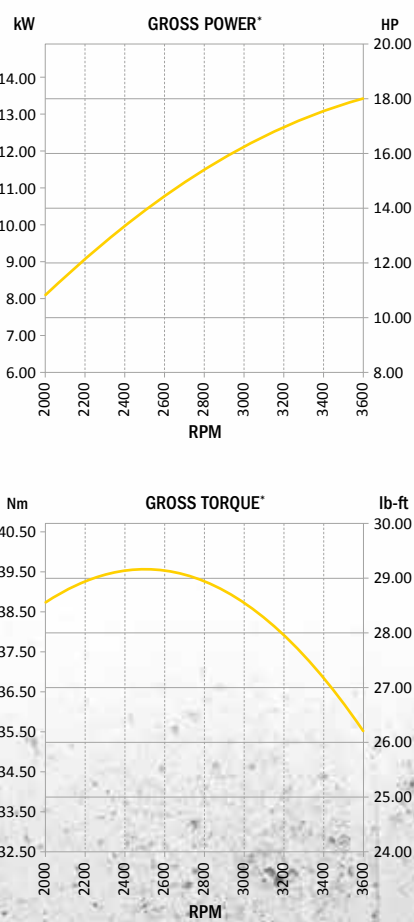


VANGUARD™ HORIZONTAL SHAFT V-TWIN 18.0 GROSS HP*

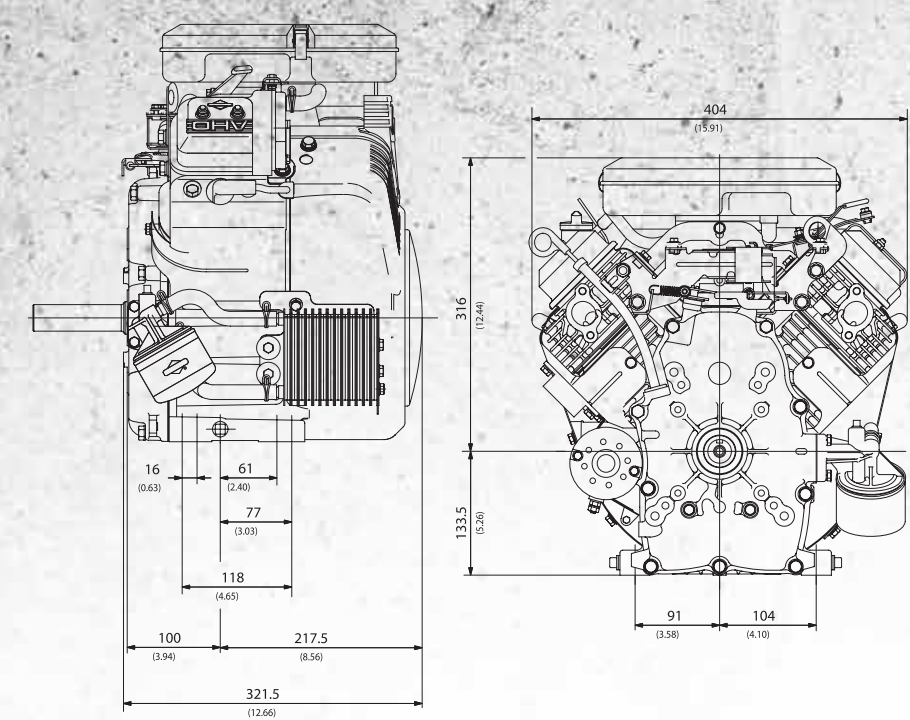


	FUEL CONSUMPTION IN LITRES PER HOUR**	
	LOAD:	FULL
	LITRES:	5,9

* All power levels are stated gross HP at 3600rpm per SAE1940 as rated by Briggs & Stratton.
** (Load @ 3'600 rpm). Fuel consumption is depending on engine configuration, application and operating conditions.



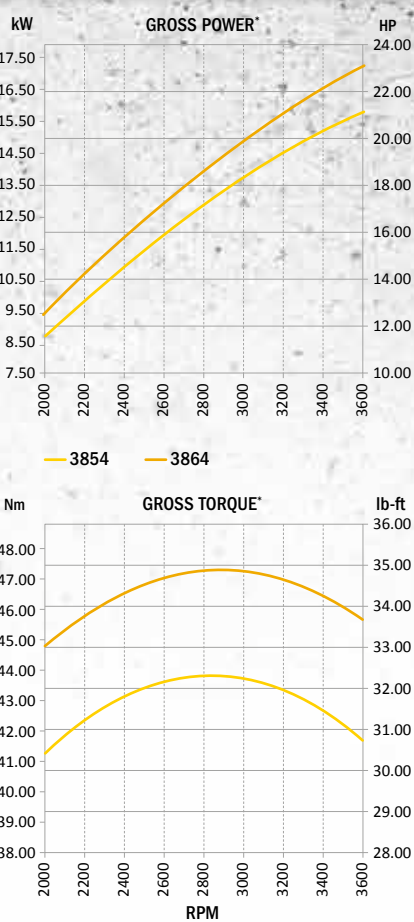
VANGUARD™ HORIZONTAL SHAFT V-TWIN 21.0 - 23.0 GROSS HP*



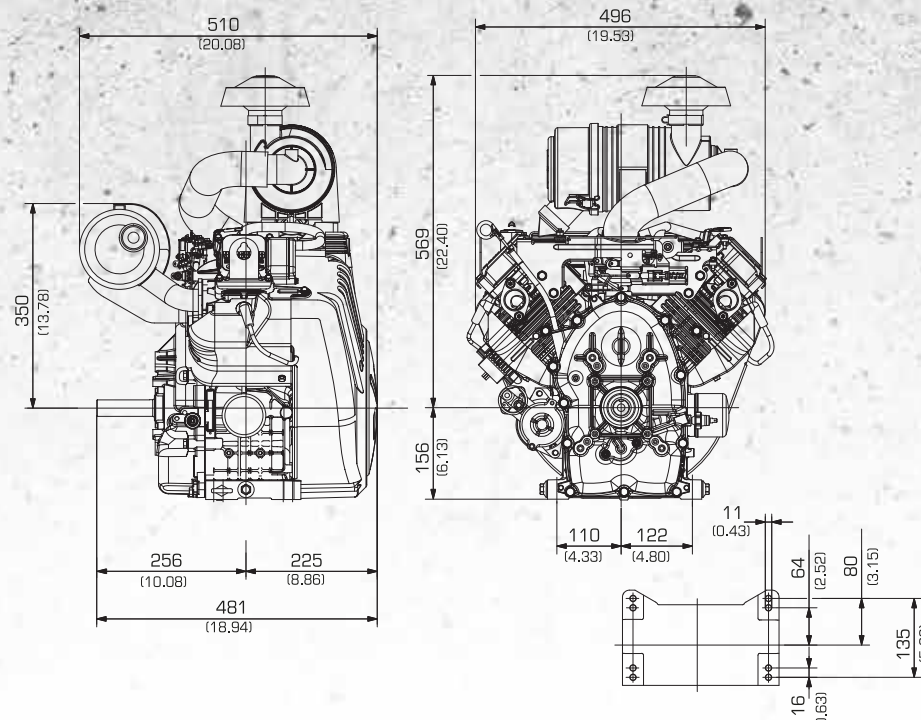
FUEL CONSUMPTION IN LITRES PER HOUR**

FULL LOAD:	3854	3864
LITRES:	6,7	6,7

* All power levels are stated gross HP at 3600rpm per SAEJ1940 as rated by Briggs & Stratton.
** (Load @ 3'600 rpm). Fuel consumption is depending on engine configuration, application and operating conditions.



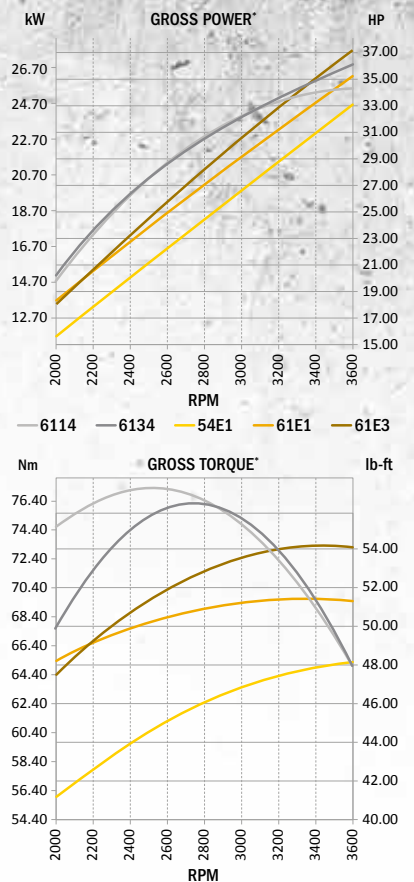
VANGUARD™ HORIZONTAL SHAFT V-TWIN 33.0 - 35.0 and 33.0 - 37.0 GROSS HP* EFI



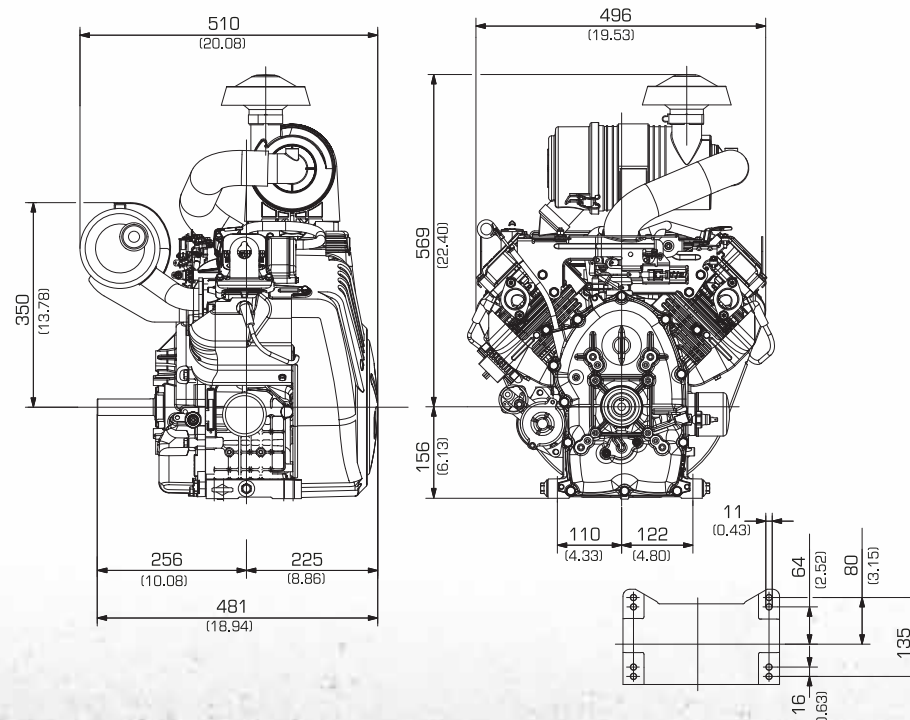
FUEL CONSUMPTION IN LITRES PER HOUR**

FULL LOAD:	6114	6134	54E1	61E1	61E3
LITRES:	10,3	10,7	10,3	10,5	10,7

* All power levels are stated gross HP at 3600rpm per SAEJ1940 as rated by Briggs & Stratton.
** (Load @ 3'600 rpm). Fuel consumption is depending on engine configuration, application and operating conditions.



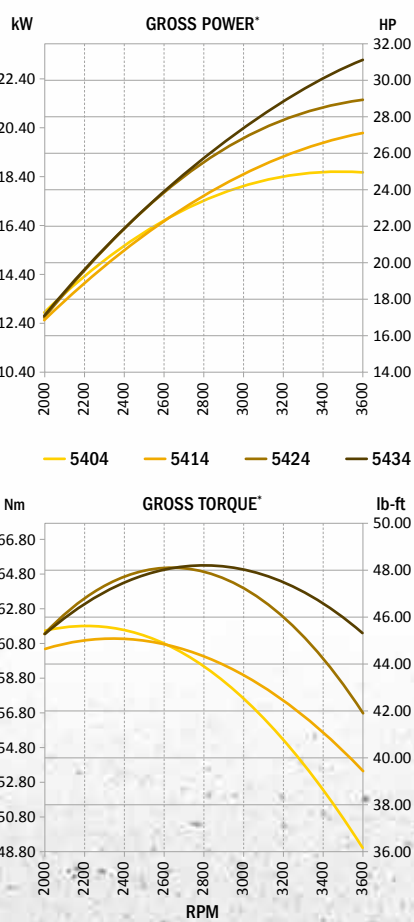
VANGUARD™ HORIZONTAL SHAFT V-TWIN 25.0 - 31.0 GROSS HP*



FUEL CONSUMPTION IN LITRES PER HOUR**

FULL LOAD:	5404	5414	5424	5434
LITRES:	10,1	10,1	10,1	10,1

* All power levels are stated gross HP at 3600rpm per SAEJ1940 as rated by Briggs & Stratton.
** (Load @ 3'600 rpm). Fuel consumption is depending on engine configuration, application and operating conditions.



UP TO 25%
FUEL SAVINGS†

VANGUARD™ EFI
ELECTRONIC FUEL INJECTION



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%.†

- SPEED SENSING**
Directs the right amount of fuel precisely when it's needed.
- EXHAUST SENSING**
For more accurate fuel delivery and maximum efficiency.
- FUEL DELIVERY**
Pressurises the fuel before it reaches the injectors.

† Fuel savings may vary based on operating conditions.

GETTING THE JOB DONE

ENGINE TECHNICAL INFORMATION

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VANGUARD™



ENGINE TYPE	V-TWIN, 4-STROKE, AIR COOLED, OHV (OVERHEAD VALVE)		V-TWIN, 4-STROKE, AIR COOLED, OHV (OVERHEAD VALVE)	V-TWIN, 4-STROKE, AIR COOLED, OHV (OVERHEAD VALVE)	V-TWIN, 4-STROKE, AIR COOLED, OHV (OVERHEAD VALVE)				V-TWIN, 4-STROKE, AIR COOLED, OHV (OVERHEAD VALVE)	EFI, V-TWIN, 4-STROKE, AIR COOLED, OHV (OVERHEAD VALVE)		
MODEL NUMBER	2964	3054	3564	3854 3864	5404	5414	5424	5434	6114 6134	54E1	61E1	61E3
GROSS POWER (HP[KW/NM]) @ 3'600 RPM	14,0 [10,44/27,70]"	16,0 [11,94/31,65]"	18,0 [13,43/35,61]"	21,0 23,0 [15,67/41,54]" [17,16/45,50]"	25,0 [18,65/49,46]"	27,0 [20,14/53,41]"	29,0 [21,63/57,37]"	31,0 [23,13/61,33]"	33,0 35,0 [24,62/65,28]" [26,11/69,24]"	33,0 [24,62/65,28]"	35,0 [26,11/65,28]"	37,0 [27,60/73,20]"
DISPLACEMENT (CC)	479		570	627	896				993	896	993	993
CYLINDER	CAST IRON SLEEVE		CAST IRON SLEEVE	CAST IRON SLEEVE	CAST IRON SLEEVE				CAST IRON SLEEVE	CAST IRON SLEEVE		
BORE & STROKE (MM)	68,0 X 66,0		72,0 X 70,0	75,5 X 70,0	85,5 X 78,0				85,5 X 86,5	85,5 X 78,0	85,5 X 86,5	85,5 X 86,5
FUEL TANK CAPACITY (L)	N/A		N/A	N/A	N/A				N/A	N/A		
OIL CAPACITY (L)	1,7		1,7	1,7	2,3				2,3	2,3		
DRY WEIGHT (KG)	32,7		33,6	35	56,8				56,8	56,8		
FEATURES	OIL FILTER, FULL PRESSURE LUBRICATION		OIL FILTER, FULL PRESSURE LUBRICATION	OIL FILTER, FULL PRESSURE LUBRICATION	OIL FILTER, FULL PRESSURE LUBRICATION DONALDSON CYCLONIC AIR CLEANER				OIL FILTER, FULL PRESSURE LUBRICATION DONALDSON CYCLONIC AIR CLEANER	OIL FILTER, FULL PRESSURE LUBRICATION DONALDSON CYCLONIC AIR CLEANER, EFI		
OPTIONAL	REWIND START EVAP COMPLIANT FUEL TANK MUFFLER		REWIND START EVAP COMPLIANT FUEL TANK MUFFLER CYCLONIC AIR CLEANER	REWIND START EVAP COMPLIANT FUEL TANK MUFFLER CYCLONIC AIR CLEANER	MUFFLER FLAT PANEL AIR CLEANER				MUFFLER FLAT PANEL AIR CLEANER	MUFFLER FLAT PANEL AIR CLEANER		



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

** (Load @ 3'600 rpm). Fuel consumption is depending on engine configuration, application and operating conditions.



COMMERCIAL POWER

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