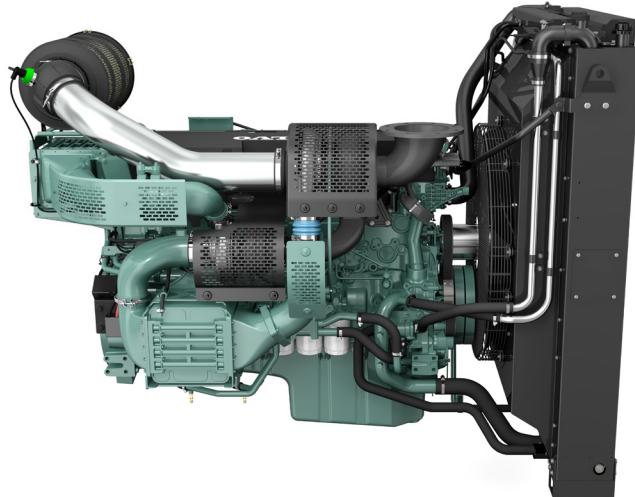
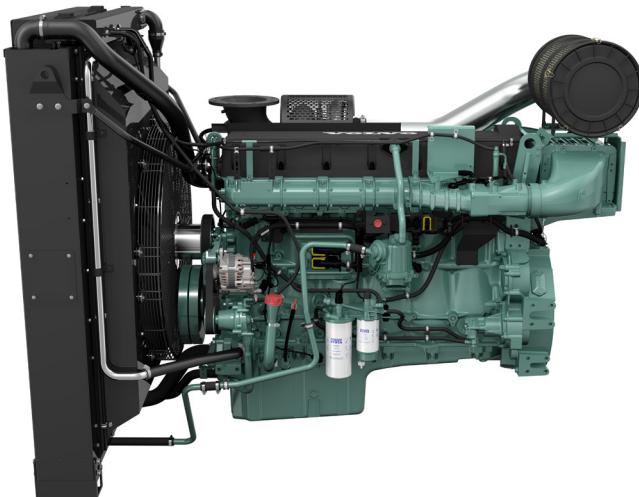


# TWD1644GE

16 liter, in-line 6 cylinder



**TWD1644GE** is a reliable, powerful and compact in-line 6 cylinder diesel engine. It's designed to power a wide range of stand-by and prime power generator sets.

This 16 liter diesel engine utilizes dual-stage turbochargers and heavy-duty steel pistons to provide excellent power density. It features a proven combustion technology with high-pressure unit injectors, resulting in high fuel efficiency and low exhaust emission levels.

The engine also features a compact and low weight design that is well-balanced, providing smooth operation with low noise and vibration. It's designed for easily accessible service points.

A wide range of options is available, including a heavy-duty frame, cooling package and air-filter that will suit a variety of installations.

- High power density
- High fuel efficiency
- Low exhaust emissions - equal to EU stage II
- Compact and low weight design
- Switchable between 1500/1800 rpm
- Suitable for a wide range of applications

## 50 Hz / 1500 rpm

	Continuous power			Prime power			Standby power			Continuous power			Prime power			Standby power		
	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA
TWD1644GE	416	391	489	554	521	652	609	573	717	437	410	513	582	547	684	640	602	752

## 60 Hz / 1800 rpm

Data Center Power	>300h running per year or non-reliable utility power in the country			≤300h running per year and reliable utility power in the country			>300h running per year or non-reliable utility power in the country			≤300h running per year and reliable utility power in the country		
	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA
TWD1644GE	554	521	652	609	573	717	582	547	684	640	602	752

## 50 Hz / 1500 rpm

## 60 Hz / 1800 rpm

Generator efficiency (typical): 94%

kWm = kiloWatt mechanical, net with fan\*; kWe = kiloWatt electrical = kWm x Generator eff.; kVA = kiloVoltAmpere calculations based on a 0.8 power factor = kWe / 0.8  
 1 kW = 1 hp x 1.36; 1 hp = 1 kW x 0.7355

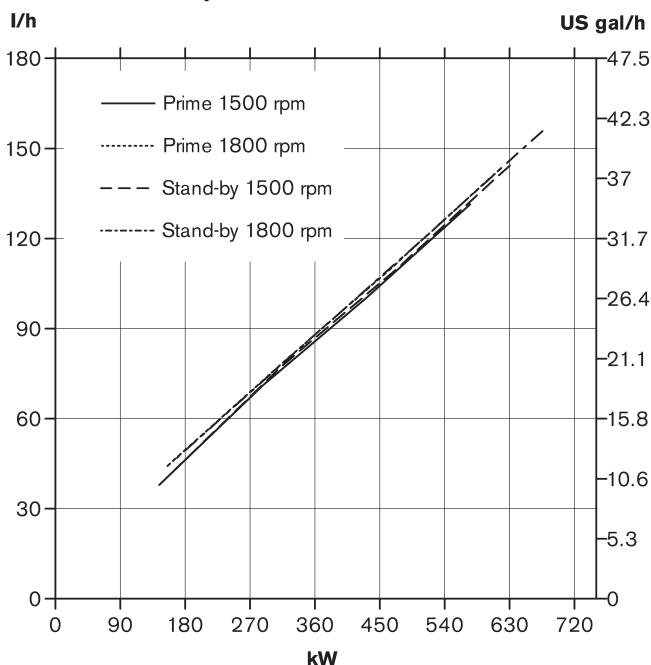
\*) According to technical data



## Technical Data

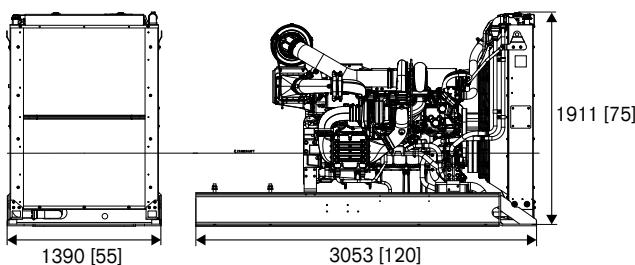
Configuration and no. of cylinders .....	in-line 6
Displacement, l (in <sup>3</sup> ) .....	16.12 (983.9)
Method of operation .....	4-stroke
Bore, mm (in.) .....	144 (5.67)
Stroke, mm (in.) .....	165 (6.50)
Compression ratio .....	16.8:1
Wet weight, engine only, kg (lb) .....	1810 (3390)
Wet weight, engine incl. cooling system, air filtration system and frame kg (lb) .....	2767(6100)

## Fuel consumption



## Dimensions

Not for installation. Dimensions in mm [inch].



## Rating guidelines

CONTINUOUS POWER is defined as being the maximum power which the generating set is capable of delivering continuously while supplying a constant electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer.

PRIME POWER rating corresponds to ISO Standard Power for continuous operation. It is applicable for supplying electrical power at variable load for an unlimited number of hours instead of commercially purchased power. A 10 % overload capability for governing purpose is available for this rating.

STAND-BY POWER rating corresponds to ISO Standard Fuel Stop Power. It is applicable for supplying stand-by electrical power at variable load in areas with well established electrical networks in the event of normal utility power failure. No overload capability is available for this rating.

DATA CENTRE POWER is defined as being the maximum power which a generating set is capable of delivering while supplying a variable or continuous electrical load and during unlimited run hours. Depending on the sites to supply and the availability of reliable utility, the generating set manufacturer is responsible to define what power level he is able to supply to fulfil that requirement including hardware or software or maintenance plan adaptation.

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## Power standards

The engine performance corresponds to ISO 3046, BS 5514 and DIN 6271. The technical data applies to an engine without cooling fan and operating on a fuel with calorific value of 42.7 MJ/kg (18360 BTU/lb) and a density of 0.84 kg/liter (7.01 lb/US gal), also where this involves a deviation from the standards. Ratings are based on ISO 8528. Engine speed governing in accordance with ISO 8528-5 G3.

Please note that products illustrated may differ from production models. Not all models and accessories are available in all markets, and standard equipment may vary between different markets. Every effort has been made to ensure that facts and figures are correct at the time of publication. However, Volvo Penta reserves the right to make changes without prior notice at any time.

Please contact your local Volvo Penta dealer for further information.

