

POWERFUL PROGRESS

POWER FOR ELECTRICAL GENERATION

Innovative 5 to 16 litre engines

**VOLVO
PENTA**



DRIVEN BY YOUR DEMANDS

When high reliability and durability are essential, Volvo Penta is the key to success. As a part of the Volvo Group, one of the world's largest manufacturers of diesel engines, Volvo Penta has extensive resources for production and continuous development of innovative engines for generator sets. With engines providing excellent operating economy, low noise levels and low exhaust emissions, together with worldwide parts supply, support and service, Volvo Penta is the world leading supplier to independent generator set producers.

Today's range includes completely new engines as well as new versions of existing engines, all of which feature advanced electronic management with enhanced performance and compact design.

NEW 7.2 LITRE COMMON RAIL

The new TAD734GE is specially developed for power generation applications. It features the latest in technology, including electronically controlled common rail fuel injection. Among the benefits are high power, low fuel consumption and excellent step load performance.

All major equipment is pre mounted and therefore makes for faster assembly time. Power output is class-leading: 250 kVA prime 50 Hz and 227 kWe standby 60 Hz.



Complete electronic management

The engine's electronic management system continuously monitors and gathers data from a number of sensors in the engine, and adjusts the fuel supply and injection timing. This improves fuel-efficiency and engine output while reducing exhaust emissions. The operator can monitor and manage the engine with CAN bus communication and for example reset engine speeds between 1500 and 1800 rpm, run on idle speed, adjust droop levels, and switch between isochronous and droop governor mode during operations.

Stage II certified range



Optimised fuel efficiency

Through careful management of the combustion process involving precise control of air movement and injection spray patterns, Volvo Penta has been able to achieve higher levels of efficiency than ever before. This has resulted in improved economy with fuel cost savings and reduced exhaust emission levels.

Compact yet powerful

Robust design, advanced electronics, new casting technology and innovative engineering all contribute to reducing the overall dimensions of the engines. Utilising the latest advances in finite stress analysis and material selection, combined with innovative construction methods, Volvo Penta has been able to design engines with high output but without sacrificing lifespan or reliability. All engines are compact in size – an advantage for containerised sets or in places with limited space.

Volvo Penta offers a complete range of 5 - 16 litre diesel engines for power generation, with output levels ranging from 75 - 644 kW.



NEW COMPACT POWER HOUSE

The new 16.1 litre TWD1643GE has market leading performance: 630 kVA prime power 50 Hz and 605 kWe standby power 60 Hz. These power levels are normally seen with larger displacement engines and make it easy for customers to install TWD1643GE anywhere where smaller sizes are required. In addition, the compact engine design gives improved benefits of low fuel consumption.

The high power is developed by use of dual stage turbocharging and dual stage charge air cooling combined with a sophisticated electronic engine control system. Single step load acceptance is excellent at both 1500 and 1800 rpm.

All major equipment is pre mounted and therefore makes for faster assembly time.



5-16 LITRE ELECTRICAL POWER GENERATION RANGE

PARTS, SERVICE & SUPPORT

With Volvo Penta, you have access to worldwide service and support. Qualified and skilled Volvo Penta dealers in more than 100 countries offer everything from contract maintenance and repairs to training and special parts supply.

Volvo Action Service provides emergency assistance in Europe and the USA 24 hours a day, all the year round.

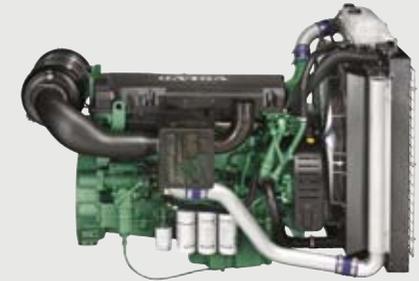
Rigorously tested and providing the correct performance and fit, Genuine Volvo Penta Parts deliver long and dependable service life. In order to speed up service operations, the same maintenance parts fit several engine models.



5 litre series



7 litre series



9 litre series



12 litre series



16 litre series

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www.volvopenta.com

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For specific information on a certain engine model, please ask your dealer or visit our website. All models are not available on all markets. The engines in the pictures may be fitted with extra optional equipment.