



# PENPOWER

## DIESEL GENERATORS

PenPower Diesel Generators are long standing generator manufacturers based in Cape Town, South Africa. Working with dependable engine and alternator partners, PenPower are able to offer a product with cutting edge design and unrivalled support

*Since 1965*



### PenPower PPv550.5D

	Prime kVA	Prime kW	Standby kVA	Standby kW
Output	500	400	550	440
Rating	50Hz, 400v 3ph			

#### Rating definitions

**Prime Power** - This rating is applicable for supplying continuous electric power (at variable load) in lieu of commercially purchased power. 10% Overload power is available for 1 hour in 12 hours continuous operation.

**Standby Power** - This rating is applicable for supplying continuous electric power (at variable load) in the event of an utility power failure. No overload is permitted for this rating.

#### Standard reference conditions

Output ratings are presented at 25°C air inlet temperature, barometric pressure 100 kPa, relative humidity 30%. This Generating set is designed to operate at high ambient temperatures (up to 55°C), humidity (up to 99%) and higher altitudes. De-rating may apply, please consult us for a site rating.

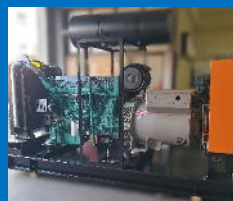
#### Volvo Powered generators

The PPv range of PenPower generators are powered by Volvo. Volvo Penta is renowned for its high-performance generator engines, designed for reliability and efficiency in various applications. Engineered for durability, these engines utilize advanced technology to ensure optimal fuel efficiency and reduced emissions, meeting stringent environmental standards. Features such as low noise levels and ease of maintenance make them a preferred choice for users. With robust support and a commitment to innovation, Volvo Penta continues to be a leader in engine solutions, providing dependable power for critical applications worldwide.



#### Open set dimensions

Length	3650	mm
Breadth	1120	mm
Height	2070	mm
Weight	3800	kg+-
Fuel tank	680	L



#### Canopy set dimensions

Length	5190	mm
Breadth	1630	mm
Height	2190	mm
Weight	5055	kg+-
Fuel tank	680	L

#### Metal treatment and coatings

*For the canopies:* Canopy wall is made of Z275 Galvanised steel sheets 1.5 mm thick. Surface treatment pre-coating includes degreasing and phosphating dipping, electro-static powder coating applied on the surface up to 80 microns, then cured at temperature of 220°C.

*For base frames:* Base frame structure is made of Hot Rolled steel sheets 2.8 mm thick. Surface treatment pre-coating includes shot blasting to Swedish standard S.A 2.5degrees followed by surface cleaning, electro-static powder coating applied on the surface up to 80 microns, then cured at temperature of 220°C.



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### Engine

## VOLVO PENTA

Engine Model	TAD1346GE
Number of Cylinders	6
Induction system	Turbo, air charge cooled
Cubic capacity	12.78L
Bore x Stroke	131 x 158
Governor	Electronic
Coolant capacity	44L
Compression Ratio	18.1 : 1
Lubricating oil capacity	36L
Electrical system voltage	24v
Oil consumption	0.04l/hr prime



### Fuel Consumption

110%	110L/hr
100%	100L/hr
75%	78L/hr
50%	52L/hr
25%	28L/hr

### Controller

**SmartGen**  
ideas for power



The **SmartGen 6120 4G** is a next-generation controller designed for generator systems with advanced 4G network capabilities. It provides comprehensive control, monitoring, and protection for diesel or gas generator sets. Here's a breakdown of its key features and a summary:

#### Key Features:

##### *Remote Control & Monitoring*

Allows for remote operation and monitoring through a mobile app or web interface

##### *Automatic transfer switch control*

##### *Comprehensive monitoring*

Real-time data monitoring, including voltage, current, frequency, power, and more.

##### *Alarm and Fault Protection*

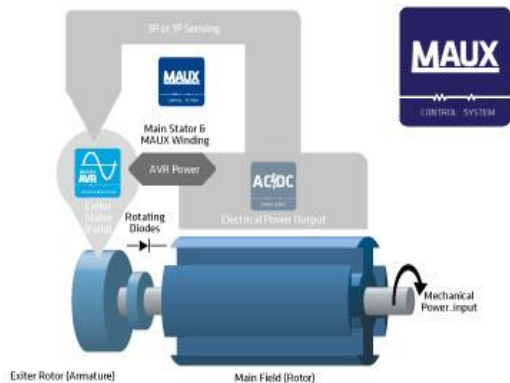
Integrated alarm and fault detection system

The SmartGen 6120 4G is an advanced generator controller designed to meet the needs of modern power generation systems. It integrates 4G technology to enable reliable remote monitoring and control. With automatic transfer switch control and a range of safety features, it offers a comprehensive solution.

### Alternator



Make	MeccAlte
Model	ECO40-1.5L
No of bearings	1
Marinization	Standard
Anticondensation heater	Standard





**PENPOWER**  
**DIESEL GENERATORS**

### Warranty

We got your back

All Penpower generators are covered by a PenPower warranty. Further Major components also carry their own warranties . All active warranties run concurrently and do not impact on one another. Warranty procedure can be carried by via PenPower and affiliated agents as well as component manufacturers support networks.  
Please request specific engine and alternator warranty summaries which are available.

### PenPower Diesel Generators : end-user warranty

This is a warranty which applies to all generating sets furnished by PenPower Diesel Generators (hereinafter referred to as "the company"). All generating sets are warranted against defects in materials and workmanship for a period of twelve months from the date of initial start-up. This warranty coverage is only applicable to the first end user of the generating set.

#### The company's responsibilities

If a defect in material or workmanship arises during the warranty period the company will:

Replace or, at the company's discretion, repair the defective parts.

Provide for reasonable and customary labour costs incurred while effecting repairs to engine defects in accordance with the policies and repair times laid down by the engine manufacturer.

Provide for the cost of service supplied such as coolant, oil and filters which are made unserviceable by the defect.

#### The user's responsibilities

The user is responsible for:

Installing and operating the generating set in accordance with the manufacturer's instructions

Returning the warranty registration form within ten days from the date of start-up or one month from the date of sale, whichever is earlier.

Ensuring that the initial start-up is performed by an authorized representative company or its distributors or agents

#### Exceptional Circumstances

In exceptional circumstances, the said start-up will be waived but only if a pre-delivery inspection has been completed.

#### Conditions

This warranty is conditional on the user's agreement to accept.

It is at the company's sole discretion as to whether the faulty part is defective in material or workmanship

Labour costs, except as stated under "the company's responsibility" including costs incurred in removing and replacing the engine, (though consideration will be given by the company in certain circumstances)

The costs and risks for the transporting / shipping and other charges associated with the replacement of the repair parts.

Any costs in excess of the purchase price of the product

Other miscellaneous costs including but not limited to travel, mileage, lodging, taxes, telephone calls and overtime, except as stated under "the company's responsibilities"

His obligation to make complete payment for the purchase of the equipment, parts per services relating to the equipment

#### Limitations, this warranty does not cover

Defects due to the user's improper installation, maintenance or use.

Alterations or repairs not authorized by the company in writing

Any operation in excess of the company's rating or outside of the stated site conditions

Normal wear and tear

This warranty is expressly in lieu of all other warranties, express or implied, including, but not limited to, any warranty of merchantability or fitness for the particular purpose. All warranties which exceed the aforementioned obligations are hereby disclaimed by the company and excluded from this warranty. The company shall, under no circumstances, be held liable for any special direct, indirect, incidental or consequential damages – in particular, when the product is operating in conjunction with a transmission system where there is a risk of potentially damaging electrical stresses in the event of transmission failure. All claims made under the warranty should be made by contacting your local distributor or agent or the company who will outline the administration and scope.