

GENSET MODEL

Model **V 590 S**

Mechanical version Silenced version with galvanized steel sheet and powder-painted canopy, compact base frame, modular fuel tank and collection basin without leak detection sensor (available as optional).

Fuel Tank Capacity l. 950

RATED TECHNICAL DATA

Prime Power (PRP) 591.00 kVA

Prime Power (PRP) 472.80 kW

Limited Power (LTP) 651.00 kVA

Limited Power (LTP) 520.80 kW

Rated Power Factor (cosφ) 0.8

Windings Three phases Series Star

Rated three-phase concatenated voltage 400 V

Rated phase-neutral voltage 230 V

Rated frequency 50 Hz

Fuel type Diesel

DIMENSIONS AND NOISE

Length 4500 mm

Width 1840 mm

Height 2540 mm

Weight 5500 kg

Sound pressure 7 m. 74.0 dBA

FUEL CONSUMPTION

Fuel Cons. at 100% (L.T.P.) 134.40 l/h

Fuel Cons. at 100% (P.R.P.) 130.30 l/h

Fuel Cons. at 75% (P.R.P.) 90.10 l/h

Fuel Cons. at 50% (P.R.P.) 60.90 l/h

Fuel Cons. at 25% (P.R.P.) 32.20 l/h

GENERAL ALTERNATOR DATA

Alternator brand STAMFORD

Alternator model HC15E

P.R.P. Power 610.0 kVA

L.T.P. Power 665.0 kVA

Winding Three phases Series Star

Terminals Number 12.00 nr.

IP Protection 23

Electronic regulator AS440

Precision ± 1.00 %



For illustrative purposes only

GENERAL ENGINE DATA

Engine brand VOLVO-PENTA

Engine model TAD1642GE

Cylinders 6

R.P.M. 1500

Cubic capacity 16.12

Air intake Turbo

Standard voltage 24 Vdc

Sae -

BMEP 2800 kPa

Cooling Water

Flywheel P.R.P. Power 503 kW

Flywheel Stand-by Power 554 kW

Electronic regulator Standard

Precision class G3

Oil quantity 48.00

Engine Antifreeze capacity 28.00

Radiator type Tropicalized

Heat from radiator 112.00 kW

Heat from exhaust 379.00 kW

Heat from radiation 18.00 kW

Exhaust temperature 456 °C

Cooling air flow 444.00 m³/min

Combustion air flow 0.00 m³/min

Exhaust gas flow 94.40 m³/min

EU Stage STAGE 2

CONTROL PANELS

AMF25



STANDARD REFERENCE CONDITIONS

Standard reference conditions temperature 25°C, altitude 100m asl, relative humidity 30%, atmospheric pressure 100 kPa (1 bar), power factor 0.8 lag, balanced load - non distortional. Fuel consumption is nominal and refers to specific weight 0.850kg/l. Sound power values refer to free field conditions: the installation site may influence the values. Dimensions, weights and other specifications contained in the technical data sheet and related attachments are nominal, subject to tolerances and refer to the model with standard equipment; any optional and additional equipment/accessories can modify weight, dimensions, performance. **P.R.P. Prime Power-Continuous power at variable load:** The power that a genset can supply in continuous service at a variable load for an unlimited number of hours per year while respecting the maintenance intervals established in the environmental conditions stated by the Manufacturer. according to ISO8528-1. The average power supplied over time and any applicable overload must be less than the percentages stated by the Manufacturer. **L.T.P. Limited-time running power-Limited power:** The maximum power that a genset can supply for a limited time respecting the maintenance intervals established in the environmental conditions stated by the Manufacturer according to ISO 8528-1. The number of hours per year is stated by the Manufacturer. Overload is not permitted. The data contained in this document is nominal and refers to the standard equipped model and is not binding. The manufacturer reserves the right to revise the information without notice per our policy of continuous product development and improvement.