

GENSET MODEL

Model P 181 ES

Mechanical version Silenced version with galvanized steel sheet and powder-painted canopy, compact base frame, integrated fuel tank without collection basin.

Fuel Tank Capacity l. 280

RATED TECHNICAL DATA

Prime Power (PRP) 180.00 kVA

Prime Power (PRP) 144.00 kW

Emergency power (E.P.) 194.00 kVA

Emergency power (E.P.) 155.20 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 2944 mm

Width 1150 mm

Height 1870 mm

Weight 2080 kg

Sound pressure 7 m. 78.0 dBA

FUEL CONSUMPTION

Fuel Cons. at 100% (E.P.) 45.10 l/h

Fuel Cons. at 100% (P.R.P.) 41.40 l/h

Fuel Cons. at 75% (P.R.P.) 32.00 l/h

Fuel Cons. at 50% (P.R.P.) 20.20 l/h

Fuel Cons. at 25% (P.R.P.) 11.00 l/h

GENERAL ALTERNATOR DATA

Alternator brand STAMFORD

Alternator model UC1274G

P.R.P. Power 180.0 kVA

E.P. Power 194.0 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 PERKINS

Engine model 1106A-70TAG3

Cylinders 6

R.P.M. 1500

Cubic capacity 7.01

Air intake Turbo

Standard voltage 12 Vdc

Sae -

BMEP 1857 kPa

Cooling Water

Flywheel P.R.P. Power 157.7 kW

Flywheel E.P. Power 175.2 kW

Electronic regulator On request

Precision class G2

Oil quantity 16.50

Engine Antifreeze capacity 9.50

Radiator type Tropicalized

Heat from radiator 111.80 kW

Heat from exhaust 140.30 kW

Heat from radiation 12.40 kW

Exhaust temperature 491 °C

Cooling air flow 282.00 m³/min

Combustion air flow 13.87 m³/min

Exhaust gas flow 33.85 m³/min

EU Stage Not available

CONTROL PANELS

DSE4520



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. **E.P. - Emergency power:** This is the maximum power that a generating set can deliver for a limited number of hours per year while complying with the maintenance frequency stipulated under the environmental conditions set by the Manufacturer. The number of hours per year is determined by the engine manufacturer. The average power output over time must be lower than the percentages set by the engine manufacturer. Overloading is not allowed.