

SMARTGENSET K15SG

50Hz@1500RPM 400/230V 3PH

KOHLER. STAMFORD



Picture for illustration purposes only

General features

Silent generator with following specifications:

Frame:

- Heavy duty fabricated welded base plate with high quality steel UNI S235 JR
- Heavy duty rubber anti-vibration mountings
- Fuel tank with drain plug and retention basin
- Feet and four lifting holes on the base
- Oil draining mechanical pump

Canopy:

- Four Large doors for easy access for service and maintenance
- Electro-galvanized sheet DC01+ZE25/25 (EN 10152: 2009)
- High precision sheet cutting with nitrogen laser technology to avoid oxidation
- Sandblasting and cataphoresis treatment of intake / exhaust grids
- Weatherproof sealed joints
- Lockable handles in each door
- Grey RAL 7035 "orange peel" specific powder coat paint for outdoor usage
- Rain cap on exhaust outlet
- Coolant refilling specific hatch
- Fuel filler outside enclosure
- Ecological Sound foam: 100% Recyclable, 35mm thickness, fire-proof self-extinguishing class1 fire-reaction compliant washable, mechanically fixed to the frame

Muffler:

- Supersilent, Residential type, integrated in the canopy
- With aluminum coating

Control Panel:

- Metal Control panel with protective back cover
- Dedicated area to make easier the electrical connection to the load

All units and components are prototype tested, factory build and production tested. A specific control procedure during the several stages of production ensures long life and reliability.

Overall performance

G15KS

PRP Continuous power kVA	15
PRP Continuous power kW	12
LTP Stand-by power kVA	17
LTP stand-by power kW	13
Power factor cos φ	0.8
Voltage VAC	400/230
Frecuency Hz	50
Ampere PRP/LTP	22 / 24
Speed RPM	1500

Dimensions and noise level

Length mm	1900
Width mm	800
Height mm	1230
Net Weight kg	618
Gross Weight kg	634
Sound pressure at 7 mt dBA	-

Data reference

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. Visa S.p.A. reserves the right to revise the information without notice per our policy of continuous product development and improvement.



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Engine general data

Engine brand	Kohler
Model	KDW1603
PRP Power kW	14.10
LTP Power kW	15.50
Fuel	Diesel
Nr. cylinders	3
Air intake	Aspirated
Cooling	Water
Cubic capacity l.	1.65
Speed regulation	Mechanical
Performance Class - steady state regulator accuracy +/- %	G2 - 0.50
Load Step G1 - KWe	-
Load Step G2 - KWe	-
Load Step G3 - KWe	-
Voltage VDC	12
Emissions	-

Alternator general data

Alternator brand	Stamford
Model	S0L1-P1
Type of excitation	Self-excited
Type of regulation	AVR
Regulator precision +/-%	1.00

Structure data

Type of structure	SMARTGENSET
Tank capacity l.	70
Retention basin	yes
Exhaust diameter mm	50

Control panel features

QFIA-4520

- Protection cover
- Circuit breaker
- AMF controller DSE4520
 - Voltmeter, Frequncymeter, Ammeter
 - Generator power (kW, kV Ar, kV A & pf) monitoring
 - Hour meter
 - Fuel level meter
 - Overload (kW & kV Ar) protection
 - Low oil pressure protection
 - High coolant temperature protection
 - Low fuel level protection
 - Battery charger alternator fault
 - Rpm protection
- Emergency stop button
- Terminal board for ATS connection
- Battery charger
- On/off switch

Fuel consumption

Consumption 25% l./h	1.70
Consumption 50% l./h	2.60
Consumption 75% l./h	3.40
Consumption 100% l./h	4.20
Autonomy at 75% of load h.	≈ 21 h

Engine liquids and equipment

Type of lubricant	Oil SAE 15W40
Lubrication capacity l.*	3.80
Type of coolant	Antifreeze liquid
Coolant capacity l.*	5.80
Air intake filter	Paper cartridge
Battery capacity Ah	50
Number of batteries*	1

Fuel system and energy balance

AC pump suction head kPa	1
Combustion air flow volume LTP m3/min	1.20
Cooling air capacity LTP m3/min	51.00
Exhaust gas flow-density LTP m3/min	2.70
Exhaust gas temperature LTP °C	460.00
Brake mean effective pressure kPa	5.10
Energy to exhaust LTP kWt	10.00
Energy to coolant LTP kWt	15.50
Energy to radiation LTP kWt	2.50



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