

KING-RENT G100IS

50Hz@1500RPM 400/230V 3PH

GENMAC
POWER PRODUCTS



Picture for illustration purposes only

General features

Silent Generator specifically designed for mobile application and Rental.
Easy to use and handle.
Mounting last generation of engine with low emission, for a clean power.

Frame:

- Heavy duty fabricated welded base plate with high quality steel UNI S235 JR
- Heavy duty, bell type, rubber anti-vibration mountings
- Dedicated area to make easier the electrical connection to the load
- Fuel tank with drain plug and retention basin
- Base with bilateral forklift pockets allow lifting from all sides

Canopy:

- 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
- RAL 9010 "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, 40mm 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:

- Self-standing control panel tower made with metal structure and components to grant IP65 protection, easily removable for maintenance
 - Easy access to control panel through a canopy's door, equipped with lexan window
 - Control panel is divided in two independent and insulated boxes separating Controls (Controller and numbered terminal board) from Power connection (circuit breaker and cable inlet)
 - External dedicated area to make easier the electrical connection to the load
 - Power connection between circuit breaker and alternator made with high resistance neoprene cables (H07RNF) and using cable glands for waterproof connections
- 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

G100IS

PRP Continuous power kVA	100.0
PRP Continuous power kW	80.0
LTP Stand-by power kVA	110.0
LTP stand-by power kW	88.0
Power factor cos φ	0.8
Voltage VAC	400/230
Frequency Hz	50
Ampere PRP/LTP	145 / 159
Speed RPM	1500

Dimensions and noise level

Length mm	2430
Width mm	1131
Height mm	1600
Net Weight kg	1422
Gross Weight kg	1457
Sound pressure at 7 mt dBA	68

Data reference

Standard reference conditions temperature 25°C, altitude 1-1000m 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 0.850 gr/lt. Power performance data as quoted can be obtained after the initial running-in period of the engine, during which one has to follow the instructions of the engine manufacturer as stated in the use and maintenance manual of the specific engine. The tolerance shown by the engine manufacturer is +/- 5%. 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.*For reasons of transport and/or storage, liquids (oil and antifreeze) and batteries might not be included in the delivery.

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Engine general data

Engine brand	Fpt-Iveco
Model	NEF45TM3
PRP Power kW	107.20
LTP Power kW	118.20
Fuel	Diesel
Nr. cylinders	4
Air intake	Turbo intercooler
Cooling	Water
Cubic capacity l.	4.50
Speed regulation	Mechanical
Starting	-
Performance Class - steady state regulator accuracy +/- %	G2 - -
Load Step G1 - KWe	-
Load Step G2 - KWe	-
Load Step G3 - KWe	-
Voltage VDC	12
Emissions	-

Alternator general data

Alternator brand	Stamford
Model	UCI274C
Type of excitation	Self-excited
Type of regulation	AVR
Regulator precision +/-%	1.00

Structure data

Type of structure	KING-RENT
Tank capacity l.	150
Retention basin	yes
Exhaust diameter mm	89

Control panel features

QT2R-4510-Rent +SK02

Self-standing tower with IP65 metal box
Circuit breaker
No. 1 CEE 125A 400V, No. 1 CEE 63A 400V
No. 1 CEE 32A 400V, No. 1 CEE 16A 400V, No. 1 CEE 16A 230V
Battery charger and Water heater plug and socket
Manual controller DSE4510
- Voltmeter, Frequency meter, 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
Analogic fuel level instrument
Emergency stop button
Audible alarm
Terminal board for ATS connection
Can Bus reading Port (if standard on the engine)
Battery charger
On/off switch

Fuel consumption

Consumption 25% l./h	-
Consumption 50% l./h	14.40
Consumption 75% l./h	20.30
Consumption 100% l./h	27.60
Autonomy at 75% of load h.	≈ 7 h

Engine liquids and equipment

Type of lubricant	Oil SAE 15W40
Lubrication capacity l.*	12.80
Type of coolant	Antifreeze liquid
Coolant capacity l.*	18.50
Air intake filter	Paper cartridge
Battery capacity Ah	100
Number of batteries*	1

Fuel system and energy balance

AC pump suction head kPa	-
Combustion air flow volume LTP m3/min	7.10
Cooling air capacity LTP m3/min	132.00
Exhaust gas flow-density LTP m3/min	20.70
Exhaust gas temperature LTP °C	538.00
Brake mean effective pressure kPa	5.00
Energy to exhaust LTP kWt	-
Energy to coolant LTP kWt	-
Energy to radiation LTP kWt	-



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