KING-GAS GU40GS-LPG

60Hz@1800RPM 380/220V 3PH



Picture for illustration purposes only

Overall performance

	GU40GS-LPG
PRP Continuous power kVA	29
PRP Continuous power kW	23
LTP Stand-by power kVA	31
LTP stand-by power kW	25
Power factor cos fiφ	0.8
Voltage VAC	380/220
Frequency Hz	60
Ampere PRP/LTP	43 / 48
Speed RPM	1800

Dimensions and noise level

Length mm	2430
Width mm	1056
Height mm	1700
Net Weight kg	946
Gross Weight kg	966
Sound pressure at 7 mt dBA	-

General features

Silent generator with following specifications:

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
- Feet and four lifting holes on the base

Canopy:
- Large doors for easy access for service and maintenance
- Metalsheet Cut using high precision laser technology
- 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:
- Residential type, Supersilent
- 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.

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	GM General Motors
Model	3.0L
PRP Power kW	34.20
LTP Power kW	38.00
Fuel	Lpg
Nr. cylinders	4
Air intake	Aspirated
Cooling	Water
Cubic capacity l.	3.00
Speed regulation	Electronic
Performance Class - steady state regulator accuracy +/- %	- - -
Load Step G1 - KWe	-
Load Step G2 - KWe	-
Load Step G3 - KWe	-
Voltage VDC	12
Emissions	-

Alternator general data

Alternator brand	Stamford
Model	S0L2-P1
Type of excitation	Self-excited
Type of regulation	AVR
Regulator precision +/-%	1.00

Structure data

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

Fuel consumption

Consumption 25% l./h	7.70
Consumption 50% l./h	11.30
Consumption 75% l./h	15.00
Consumption 100% l./h	18.30
Autonomy at 75% of load h.	

Engine liquids and equipment

Type of lubricant	Oil SAE 15W40
Lubrication capacity l.*	3.80
Type of coolant	Antifreeze liquid
Coolant capacity l.*	12.00
Air intake filter	Paper cartridge
Battery capacity Ah	70
Number of batteries*	1

Fuel system and energy balance

Gas supply pressure (bar)	-
Combustion air flow volume LTP m3/min	2.70
Cooling air capacity LTP m3/min	-
Exhaust gas flow-density LTP m3/min	8.90
Exhaust gas temperature LTP °C	-
Brake mean effective pressure kPa	10.20
Energy to exhaust LTP kWt	-
Energy to coolant LTP kWt	25.30
Energy to radiation LTP kWt	-

Control panel features

QT2A-4520

Self-standing tower with IP65 metal box
Circuit breaker
AMF controller DSE4520
- Voltmeter, Frequencymeter, 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
Audible alarm
Terminal board for ATS connection
Can Bus reading Port (if standard on the engine)
Battery charger
On/off switch



Dealer

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