# **STRONG GU40DS**

## 60Hz@1800RPM 440/254V 3PH



#### Picture for illustration purposes only

Overall performance	GU40DS
PRP Continuous power kVA	34
PRP Continuous power kW	27
LTP Stand-by power kVA	37
LTP stand-by power kW	30
Power factor cos fiq	0.8
Voltage VAC	440/254
Frequency Hz	60
Ampere PRP/LTP	44 / 49
Speed RPM	1800

## Dimensions and noise level

Length mm	2220
Width mm	960
Height mm	1258
Net Weight kg	905
Gross Weight kg	-
Sound pressure at 7 mt dBA	67.00

### 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 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.



# **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
- 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
- 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, 35mm thickness, fire-proof self-extinguishing class1 fire-reaction compliant washable, mechanically fixed to the frame

#### Muffler:

- Residential type

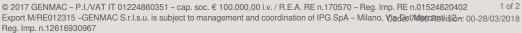
- Integrated in the canopy
- With aluminum coating

#### **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.



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## Engine general data

Engine brand	Deutz
Model	F4M2011
PRP Power kW	32.80
LTP Power kW	34.50
Fuel	Diesel
Nr. cylinders	4
Air intake	Aspirated
Cooling	Oil
Cubic capacity I.	3.11
Speed regulation	Mechanical
Performance Class - steady state regulator accuracy +/- %	G2 - 5.00
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	STRONG	
Tank capacity I.	100	
Retention basin	yes	
Exhaust diameter mm	50	
Control nonal factures		

# **Fuel consumption**

Consumption 25% I./h	3.15
Consumption 50% I./h	4.35
Consumption 75% I./h	6.58
Consumption 100% I./h	8.69
Autonomy at 75% of load h.	≈ 15 h

## **Engine liquids and equipment**

Type of lubricant	Oil SAE 15W40
Lubrication capacity I.*	13.00
Type of coolant	-
Coolant capacity I.*	-
Air intake filter	Paper cartridge
Battery capacity Ah	70
Number of batteries*	1

## Fuel system and energy balance

AC pump suction head kPa	3
Combustion air flow volume LTP m3/min	2.28
Cooling air capacity LTP m3/min	36.00
Exhaust gas flow-density LTP m3/min	7.13
Exhaust gas temperature LTP °C	660.00
Brake mean effective pressure kPa	3.00
Energy to exhaust LTP kWt	33.10
Energy to coolant LTP kWt	-
Energy to radiation LTP kWt	-

## **Control panel features**

## **QFIA-4520**

Protection cover

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 Terminal board for ATS connection Battery charger On/off switch



Dealer



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