

# GAMMA G120JO

50Hz@1500RPM 400/230V 3PH

**GENMAC**  
POWER PRODUCTS



Picture for illustration purposes only

## General features

Open 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
- Fuel tank with drain plug
- Easy access to fuel refilling
- Feet and four lifting holes on the base

### Muffler:

- Industrial type
- With aluminum coating

### Control Panel:

- Self-standing control panel tower made with metal structure and components to grant IP65 protection, easily removable for maintenance
- 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

### G120JO

PRP Continuous power kVA	121
PRP Continuous power kW	97
LTP Stand-by power kVA	134
LTP stand-by power kW	107
Power factor cos $\phi$	0.8
Voltage VAC	400/230
Frequency Hz	50
Ampere PRP/LTP	175 / 193
Speed RPM	1500

## Dimensions and noise level

Length mm	2250
Width mm	1020
Height mm	1633
Net Weight kg	1400
Gross Weight kg	-
Sound pressure at 7 mt dBA	-

## 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.



## Engine general data

Engine brand	John-Deere
Model	4045HFU20
PRP Power kW	111.00
LTP Power kW	122.00
Fuel	Diesel
Nr. cylinders	4
Air intake	Turbocharged
Cooling	Water
Cubic capacity l.	4.50
Speed regulation	Mechanical
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	Mecc-Alte
Model	ECP34-2M/4C
Type of excitation	Self-excited
Type of regulation	AVR
Regulator precision +/- %	1.00

## Structure data

Type of structure	GAMMA
Tank capacity l.	270
Retention basin	yes
Exhaust diameter mm	193

## Control panel features

### QT2A-4520

Self-standing tower with IP65 metal box  
 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  
 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	7.70
Consumption 50% l./h	15.50
Consumption 75% l./h	22.20
Consumption 100% l./h	29.00
Autonomy at 75% of load h.	≈ 12 h

## Engine liquids and equipment

Type of lubricant	Oil SAE 15W40
Lubrication capacity l.*	14.70
Type of coolant	Antifreeze liquid
Coolant capacity l.*	24.90
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	-
Cooling air capacity LTP m3/min	-
Exhaust gas flow-density LTP m3/min	-
Exhaust gas temperature LTP °C	-
Brake mean effective pressure kPa	-
Energy to exhaust LTP kWt	-
Energy to coolant LTP kWt	-
Energy to radiation LTP kWt	-



Dealer