

# INFINITY G20PS-E

50Hz@1500RPM 400/230V 3PH

**GENMAC**  
POWER PRODUCTS



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
- Forklift pockets

### Canopy:

- No.4 Large doors for easy access for service and maintenance
- Metalsheet Cut using high precision laser technology
- Weatherproof sealed joints
- High-tech Nylon hinges: rust-free, no need to lubricate
- Lockable handles in each door
- Grey RAL 7035 "orange peel" specific powder coat paint for outdoor usage
- Coolant refilling specific hatch
- Fuel filler outside enclosure
- Central lifting hook
- Ecological Sound foam: 100% Recyclable, fire-proof self-extinguishing class1 fire-reaction compliant washable, mechanically fixed to the frame

### 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

### G20PS-E

PRP Continuous power kVA	20
PRP Continuous power kW	16
LTP Stand-by power kVA	22
LTP stand-by power kW	18
Power factor cos $\phi$ ip	0.8
Voltage VAC	400/230
Frecuency Hz	50
Ampere PRP/LTP	29 / 32
Speed RPM	1500

## Dimensions and noise level

Length mm	1802
Width mm	752
Height mm	1130
Net Weight kg	659
Gross Weight kg	682
Sound pressure at 7 mt dBA	68.00

## 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 0.850 gr/lit. 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	<b>Perkins</b>
Model	<b>404D-22G</b>
PRP Power at the flywheel kW	<b>18.40</b>
LTP Power at the flywheel kW	<b>20.30</b>
Fuel	<b>Diesel</b>
Nr. cylinders	<b>4</b>
Air intake	<b>Aspirated</b>
Cooling	<b>Water</b>
Cubic capacity l.	<b>2.21</b>
Speed regulation	<b>Mechanical</b>
Regulator precision +/-%	<b>G2 - 0.75</b>
Voltage VDC	<b>12</b>
Emissions	<b>EU-STAGE 3A</b>

## Fuel consumption

Consumption 25% l./h	<b>-</b>
Consumption 50% l./h	<b>2.90</b>
Consumption 75% l./h	<b>4.00</b>
Consumption 100% l./h	<b>5.30</b>
Autonomy at 75% of load h.	<b>~ 13 h</b>

## Engine liquids and equipment

Type of lubricant	<b>Oil SAE 15W40</b>
Lubrication capacity l.*	<b>10.60</b>
Type of coolant	<b>Antifreeze liquid</b>
Coolant capacity l.*	<b>7.00</b>
Air intake filter	<b>Paper cartridge</b>
Battery capacity Ah	<b>70</b>
Number of batteries*	<b>1</b>

## Alternator general data

Alternator brand	<b>Mecc-Alte</b>
Model	<b>ECP28-M/4A</b>
Type of excitation	<b>Self-excited</b>
Type of regulation	<b>AVR</b>
Regulator precision +/-%	<b>1.00</b>

## Fuel system and energy balance

AC pump suction head kPa	<b>1</b>
Combustion air flow volume LTP m3/min	<b>1.45</b>
Cooling air capacity LTP m3/min	<b>40.20</b>
Exhaust gas flow-density LTP m3/min	<b>3.94</b>
Exhaust gas temperature LTP °C	<b>505.00</b>
Brake mean effective pressure kPa	<b>10.20</b>
Energy to exhaust LTP kWt	<b>16.60</b>
Energy to coolant LTP kWt	<b>19.60</b>
Energy to radiation LTP kWt	<b>4.40</b>

## Structure data

Type of structure	<b>INFINITY</b>
Tank capacity l.	<b>50</b>
Retention basin	<b>yes</b>
Exhaust diameter mm	<b>50</b>

## Control panel features

### QFIP-4510-PT2

No. 1 CEE 32A 400V

No. 1 CEE 16A 400V

No. 2 CEE 16A 230V

No. 1 Schuko 16A 230V

Thermal breaker

Circuit breaker

Controller DSE4510

- 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

Quick connector for remote start/ATS

On/off switch



Dealer