



For illustrative purposes only

### Strong points

- 1- Industrial diesel engine in genset version with certificate of origin
  - 2- Industrial brushless alternator with AVR
  - 3- Large capacity steel baseframe-fuel tank with level sensor
  - 4- Industrial silencer and coupling flange
  - 5- Electrical panel mounted on board the unit with digital control device installed in metal box
  - 6- Compact for easy handling and use
  - 7- Test report, manuals and electrical drawings supplied
  - 8- World wide after sales service and technical support
- Further details on the technical data sheet**

Performance	
<b>Continuous power (PRP)</b>	<b>20.0 (kVA)</b>
<b>Continuous power (PRP)</b>	<b>16.0 (kW)</b>
<b>Stand-by power (LTP)</b>	<b>22.0 (kVA)</b>
<b>Stand-by power (LTP)</b>	<b>17.6 (kW)</b>
<b>Power factor</b>	<b>0.8</b>

### Voltage

Frequency (Hz)	50 Hz
Voltage (V)	380 V

### Dimensions and noise level

Width	920 mm
Length	1420 mm
Height	1260 mm
Weight	570 kg
Sound pressure 7 m.	0.0 dBA

### Data references

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 0,850kg/l. 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.

Engine	
Engine brand	PERKINS
Engine model	404A-22G1
Cylinders	4
Speed	1500 r.p.m.
Cubic capacity	2.22 l
Air intake	Aspirated
Standard voltage	12 Vdc
Optional voltage	Vdc
Sae	4-7½
BMEP	669 kPa
Cooling	Water

### Engine power

Flywheel P.R.P. Power	18.7 kW
Flywheel Stand-by Power	20.6 kW

### Fuel consumption

Fuel Cons. at 100% (L.T.P.)	6.1 l/h
Fuel Cons. at 100% (P.R.P.)	5.3 l/h
Fuel Cons. at 75% (P.R.P.)	4.0 l/h
Fuel Cons. at 50% (P.R.P.)	2.9 l/h
Fuel Cons. at 25% (P.R.P.)	0.0 l/h

### Speed regulation

Electronic regulator	On request
Precision class	G2

### Engine dimensions and liquids

Oil quantity	10.6 l
Engine Antifreeze capacity	3.6 l
Radiator standard	IM50



### Heat from engine

Heat from radiator	17.0 kW
Heat from exhaust	14.0 kW
Heat from radiation	3.3 kW

### Exhaust data

Exhaust temperature	445 °C
Cooling air flow	29.40 m <sup>3</sup> /min
Combustion air flow	1.45 m <sup>3</sup> /min
Exhaust gas flow	3.64 m <sup>3</sup> /min

### Emissions

TA Luft	Not available
TA Luft/2	Not available
EPA	Not available
Stage	Not available

### Alternator

Alternator brand	STAMFORD
Alternator model	PI144D
P.R.P. Power	20.0 kVA
L.T.P. Power	22.0 kVA

### Alternator wirings

Connection	Series star
Phases	3PH+N
Winding	12 terminals Winding 311
Terminal Number	12 nr.

### Alternator protection

IP Protection	23
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### Voltage regulator

Electronic regulator	AS480
Precision	1.0 ± %

### Baseframe

Model	T1
Standard tank	160 l
Optional tank	0 l
Oversized tank*	0 l

### Canopy & Silencer

Canopy model	SENZA COFANO
Silencer model	MS 10
Silencer outlet diameter	48.0 mm

### Available control panels



Advanced **single gen-set controller for stand-by and prime power applications**. Direct communication with EFI engines, total remote monitoring and control, easy to install, configure and use, wide range of communication capabilities including: connection via RS232, RS485, CAN and on board USB, internet access using Ethernet, GPRS or 4G support for Modbus and SNMP protocols. Internal PLC support with PLC editor and monitor included in LiteEdit, cloud-based monitoring and control via Onis Visa WebSupervisor, active SMS and emails in different languages, SNMP traps, geofencing and tracking via Onis Visa WebSupervisor, 2x 10 A binary outputs for cranking and fuel solenoid, option for up to 16 additional binary inputs/outputs, flexible event based history with up to 350 events, load shedding, dummy load capability, tier 4 final support, automatic temperature based cooling/heating, comprehensive gen-set protections, multipurpose flexible timers, true RMS measurement.

### Optional control panels



**Guard Touch MANUAL OR AUTOMATIC** is the new revolutionary controller with touch screen, researched and developed by Visa S.p.A., which will be standard supply on our gensets. From a technical and operational viewpoint, the new device is different from its predecessors, but still maintains Visa's main characteristic: MODULARITY! Guard Touch is a versatile controller able to satisfy the myriad of requests from the end-user, from manual function to totally automatic management.



**ATS** is a new line of changeover switch panels developed and manufactured by Visa S.p.A. in accordance with CEI EN 61439-2 (construction standard). Specifically used for generating sets, the changeover switch panel allows the changeover between mains/genset or genset/genset. The main part of the panel contains two interlocking contactors or a motorised circuit breaker. All of the parts are installed inside a sturdy powder-coated metal box (RAL7035) and equipped with a lock to close the access door.

### Options

Each genset model has a wide range of accessories and customised equipment choices; standard equipment and optional accessories are described in the technical data sheet. Contact our sales office for further information and details.

