



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

| | | |
|-------------------------------|--------------|-------|
| Continuous power (PRP) | 100.0 | (kVA) |
| Continuous power (PRP) | 80.0 | (kW) |
| Stand-by power (LTP) | 110.0 | (kVA) |
| Stand-by power (LTP) | 88.0 | (kW) |
| Power factor | 0.8 | |

Voltage

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

Dimensions and noise level

| | | |
|---------------------|------|-----|
| Width | 910 | mm |
| Length | 2100 | mm |
| Height | 1510 | mm |
| Weight | 1060 | 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 | FPT IVECO |
| Engine model | N45TM2A |
| Cylinders | 4 |
| Speed | 1500 r.p.m. |
| Cubic capacity | 4.50 l |
| Air intake | Turbocharged |
| Standard voltage | 12 Vdc |
| Optional voltage | 24 Vdc |
| Sae | 3-11½ |
| BMEP | 1584 kPa |
| Cooling | Water |

Engine power

| | | |
|-------------------------|------|----|
| Flywheel P.R.P. Power | 87.5 | kW |
| Flywheel Stand-by Power | 96.2 | kW |

Fuel consumption

| | | |
|-----------------------------|------|-----|
| Fuel Cons. at 100% (L.T.P.) | 24.4 | l/h |
| Fuel Cons. at 100% (P.R.P.) | 22.0 | l/h |
| Fuel Cons. at 75% (P.R.P.) | 15.3 | l/h |
| Fuel Cons. at 50% (P.R.P.) | 11.0 | 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 | 12.8 | l |
| Engine Antifreeze capacity | 8.5 | l |
| Radiator standard | IM50 | |





Gruppi Elettrogeni - Generating Sets
 ГЕНЕРАТОРЫ ЭЛЕКТРИЧЕСТВА - مجموعة المولدات
 Stromaggregate - Groupes Électrogènes - Grupos Electrógenos

POWERFULL - F 100 B

Heat from engine

| | |
|---------------------|---------|
| Heat from radiator | 38.5 kW |
| Heat from exhaust | 67.5 kW |
| Heat from radiation | 5.1 kW |

Exhaust data

| | |
|---------------------|----------------------------|
| Exhaust temperature | 535 °C |
| Cooling air flow | 132.00 m ³ /min |
| Combustion air flow | 7.12 m ³ /min |
| Exhaust gas flow | 20.03 m ³ /min |

Emissions

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

Alternator

| | |
|------------------|-----------|
| Alternator brand | MARELLI |
| Alternator model | MJB225MA4 |
| P.R.P. Power | 100.0 kVA |
| L.T.P. Power | 110.0 kVA |

Alternator wirings

| | |
|-----------------|---------------------------------------|
| Connection | Series star |
| Phases | 3PH+N |
| Winding | 12 terminals 50-60Hz Winding M0 |
| Terminal Number | 12 nr. |

Alternator protection

| | |
|---------------|----|
| IP Protection | 23 |
|---------------|----|

Voltage regulator

| | |
|----------------------|-----------|
| Electronic regulator | M16FA655A |
| Precision | 0.5 ± % |

Baseframe

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

Canopy & Silencer

| | |
|--------------------------|--------------|
| Canopy model | SENZA COFANO |
| Silencer model | MS 15 |
| Silencer outlet diameter | 70.0 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.

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.

