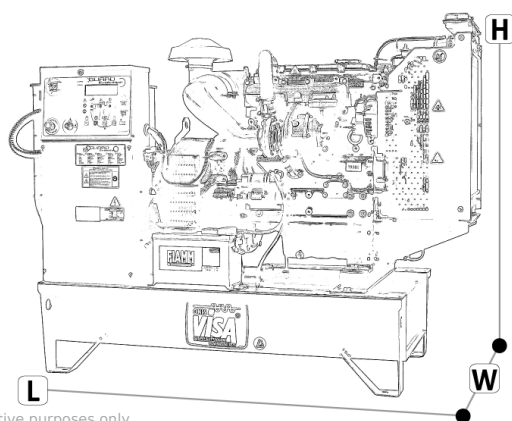


POWERFULL - F 80 B



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)	83.0 (kVA)
Continuous power (PRP)	66.4 (kW)
Stand-by power (LTP)	91.0 (kVA)
Stand-by power (LTP)	72.8 (kW)
Power factor	0.8

Voltage	
Frequency (Hz)	50 Hz
Voltage (V)	400 V

Dimensions and noise level	
Width	960 mm
Length	1860 mm
Height	1420 mm
Weight	0 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 0.850 gr/lt. 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	N45SM3
Cylinders	4 nr.
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	1326 kPa
Cooling	Water

Engine power	
Flywheel P.R.P. Power	74.6 kW
Flywheel Stand-by Power	82.3 kW

Fuel consumption	
Fuel Cons. at 100% (L.T.P.)	21.2 l/h
Fuel Cons. at 100% (P.R.P.)	19.4 l/h
Fuel Cons. at 75% (P.R.P.)	14.4 l/h
Fuel Cons. at 50% (P.R.P.)	9.6 l/h
Fuel Cons. at 25% (P.R.P.)	0.0 l/h

Speed regulation	
Electronic regulator	On request
Precision class	

Engine dimensions and liquids	
Oil quantity	12.8 l
Engine Antifreeze capacity	8.5 l
Radiator standard	IM50

The data contained in this document is nominal and refers to the standard equipped model and is not binding. Visa S.p.A. reserves the right to revise the information without notice per our policy of continuous product development and improvement.





POWERFULL - F 80 B

Heat from engine

Heat from radiator	39.3 kW
Heat from exhaust	52.0 kW
Heat from radiation	0.0 kW

Exhaust data

Exhaust temperature	516 °C
Cooling air flow	132.00 m ³ /min
Combustion air flow	0.00 m ³ /min
Exhaust gas flow	12.70 m ³ /min

Emissions

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

Alternator

Alternator brand	MARELLI
Alternator model	MJB225SA4
P.R.P. Power	85.0 kVA
L.T.P. Power	94.0 kVA

Alternator wirings

Connection	Series star
Phases	Trifase + Neutro
Winding	12 terminals 50-60Hz Winding M0
Terminal Number	12 nr.

Alternator protection

IP Protection	23
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Voltage regulator

Electronic regulator	M16FA655A
Precision	0.5 ± %

Baseframe

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

Canopy & Silencer

Canopy model	SENZA COFANO
Silencer model	MS 15
Silencer outlet diameter	70.0 mm

Available control panels



The **GUARD EVOLUTION** device, in MANUAL or AUTOMATIC version, is designed and manufactured by Visa S.p.A. for the command, control and protection of the generating set. Main characteristics are: clear communication via a large backlit display screen; generating set event analysis through sophisticated algorithms; complete engine and electrical parameters; possibility of integrating additional modules and programme extensions; customisation for dealers (optional).

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.



The **In-Sync** device is equipped in the Visa generating sets needed to operate the most complex systems. In Sync is the best solution available in the market as it offers the most varied configuration and management options. There are two main configurations: PGE & PRE (parallel between gensets and parallel with the mains); these functions are available in a single device and differentiated through programming and possible implementation. The reliability and very high degree of customisation makes Visa gensets equipped with the In-Sync device very versatile and capable of satisfying the most complex requirements. In Sync allows the customer to build multiple generating set Power Stations providing fuel economy while maintaining maximum safety and extending the life of the system.



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.

