X2200C

Engine ref.	16V4000G23E
Alternator ref.	LSA53.2XL9 4P
Performance class	G3

GENERAL CHARACTERISTICS

Frequency (Hz)	50
Voltage (V)	11000
Standard Control Panel	Basic terminal block M80

DESCRIPTIVE

- Electronic governor
- Mechanically welded chassis with antivibration suspension
- Exhaust compensators with flanges
- 24 V charge alternator and starter
- Delivered with oil
- Manual for use and installation

POWER

Voltage	ESP		PRP		DCC (*)		Prime Amps
	kWe	kVA	kWe	kVA	kWe	kVA	
11000	1760	2200	1600	2000	1600	2000	105

DIMENSIONS COMPACT VERSION

Length (mm)	4618
Width (mm)	1885
Height (mm)	2444
Dry weight (kg)	13473

POWER DEFINITION

PRP : Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO 8528-1. ESP : The standby power rating is applicable for supplying emergency power in variable load applications in accordance with ISO 8528-1. Overload is not allowed.
*DCC : Data Center Continuous Power ratings apply to Data Center installations where a reliable utility power is available and comply with Uptime institute Tier III and IV requirements. At constant or varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Average load factor : ≤ 100%.

TERMS OF USE

According to the standard, the nominal power assigned by the genset is given for 25°C Air Intlet Temperature, of a barometric pressure of 100 kPA (100 m A.S.L), and 30 % relative humidity. For particular conditions in your installation, refer to the derating table.

ASSOCIATED UNCERTAINTY

For the generating sets used indoor, where the acoustic pressure levels depends on the installation conditions, it is not possible to specify the ambient noise level in the exploitation and maintenance instructions . You will also find in our exploitation and maintenance instructions a warning concerning the air noise dangers and the need to implement appropriated preventive measures.

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ENGINE CHARACTERISTICS

GENERAL ENGINE DATA

Engine brand	MTU
Engine ref.	16V4000G23E
Air inlet system	Turbo
Cylinders configuration	V
Number of cylinders	16
Displacement (L)	76.27
Charge Air coolant	Air/Water DC
Bore (mm) x Stroke (mm)	170.00 x 210.00
Compression ratio	16.5
Speed (RPM)	1500
Pistons speed (m/s)	10.50
Maximum stand-by power at rated RPM (kW)	1978.00
Frequency regulation, steady state (%)	+/- 0.5%
BMEP (bar)	18.86
Governor type	Electronic

COOLING SYSTEM

Radiator & Engine capacity (L)	733.00
Max water temperature (°C)	104.00
Outlet water temperature (°C)	100
Fan power (kW)	See Radiator Data Sheet
Fan air flow w/o restriction (m3/s)	
Available restriction on air flow (mm H2O)	
Type of coolant	Glycol-Ethylene
Thermostat modulating range HT (°C)	79/92

EMISSIONS

Emission PM (mg/Nm3) 5% O2	<50
Emission CO (mg/Nm3) 5% O2	<300
Emission HC+NOx (g/kWh)	
Emission HC (mg/Nm3) 5% O2	<150

EXHAUST

Exhaust gas temperature @ ESP 50Hz (°C)	480
Exhaust gas flow @ ESP 50 Hz (L/s)	7600.00
Max. exhaust back pressure (mm H2O)	500

FUEL

Consumption @ 110% load (L/h)	506.00
Consumption @ 100% load (L/h)	458.00
Consumption @ 75% load (L/h)	336.00
Consumption @ 50% load (L/h)	227.00
Maximum fuel pump flow (L/h)	1500.00

OIL

Oil capacity (L)	300.00
Min. oil pressure (bar)	3.50
Max. oil pressure (bar)	7.00
Oil consumption 100% load (L/h)	1.370
Oil sump capacity (L)	240.0

HEAT BALANCE

Heat rejection to exhaust (kW)	1609
Radiated heat to ambient (kW)	90.00
Heat rejection to coolant (kW)	

AIR INTAKE

Max. intake restriction (mm H2O)	150
Intake air flow (L/s)	3200.00

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CONTROL PANEL

Basic terminal block

The control unit can be used as a basic terminal block for connecting a control box.

Offers the following functions:

emergency stop button, customer connection terminal block, CE.

M80, transfer of information

The M80 is a dual-function control unit. It can be used as a basic terminal block for connecting a control box and as an instrument panel with a direct read facility, with displays giving a global view of your generating set's basic parameters.

Offers the following functions:

Engine parameters: tachometer, working hours counter, coolant temperature indicator, oil pressure indicator, emergency stop button, customer connection terminal block, CE.