

VM2200-5C

DIESEL GENERATOR SET / OPEN + SILENT



OPEN SET

SILENT SET

2200

kVA

STANDBY POWER

2000

kVA

PRIME POWER

50

Hz

FREQUENCY

400/230

V

VOLTAGE

MTU 16V4000G23

3 phase · 0.8 PF · 1500 rpm

CONFIGURATION COMPARISON

Configuration	Dimensions (L × W × H)	Dry weight	Fuel tank
Open set	5800 × 2200 × 2565 mm	15200 kg	/
Container	12192 × 2438 × 2896 mm	23200 kg	/

Performance, engine, alternator and controller data are common to both configurations.

GENERAL CHARACTERISTICS

VM2200-5C · 50 Hz · 3 Phase

RATED PERFORMANCE

Standby Power (kVA)	2200
Standby Power (kW)	1800
Prime Power (kVA)	2000
Prime Power (kW)	1640
Power Factor (Cos Phi)	0.8
Diesel Engine	16V4000G23
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

POWER DEFINITIONS

STANDBY POWER (ESP)

Available for supplying emergency power during a utility interruption. The stated rating follows ISO 8528-1.

PRIME POWER (PRP)

Available for an unlimited number of annual operating hours in variable-load applications, in accordance with ISO 8528-1.

TERMS OF USE

Nominal power is stated at 25 °C inlet-air temperature, 100 kPa barometric pressure (100 m A.S.L.) and 30% relative humidity.

RATED OUTPUT CURRENT BY VOLTAGE

Rated voltage	Standby current (2200 kVA)	Prime current (2000 kVA)
380/220 V	3342.6 A	3038.7 A
400/230 V	3175.4 A	2886.8 A
415/240 V	3060.7 A	2782.4 A

ENGINE DATA

MTU 16V4000G23

GENERAL ENGINE DATA

Engine brand	MTU
Engine model	16V4000G23
Engine type	4-stroke diesel
Governor type	ECU
Injection type	Direct
Aspiration type	Turbocharger and intercooled
Cylinders and arrangement	16-V

FUEL CONSUMPTION

100% load ESP	/
100% load PRP	377.1 L/h
75% load PRP	287.2 L/h
50% load PRP	201.3 L/h

AIR SYSTEM

Intake air flow	2100.0 L/s
Cooling air flow	19 L/s

GENERAL ENGINE DATA

Bore × stroke	170 × 210 mm
Displacement	76.3 L
Cooling system	Water-cooled
Lube oil consumption at full load	0.5%-1% of fuel consumption
Compression ratio	16.4:1
Air filter	Dry

EXHAUST SYSTEM

Maximum exhaust temperature	485 °C
Exhaust gas flow	5800 L/s
Maximum allowed back pressure	8.5 kPa

STARTING SYSTEM

Starting power	15 kW
Recommended battery	200 Ah
Number of batteries	4
Auxiliary voltage	24 VDC

OIL AND COOLING CAPACITIES

Engine oil capacity	300 L
Total coolant capacity	225 L

ALTERNATOR DATA

3-phase · Brushless · Electronic AVR

GENERAL ALTERNATOR DATA

Number of phases	3
Power factor (Cos Phi)	0.8
Poles	4
Winding connections (standard)	Star-series
Insulation	H class
Enclosure (according to IEC 34-5)	IP23
Excitation system	Self-excited, brushless
Voltage regulator	AVR (Electronic)
Number of bearings	Single bearing
Coupling system	Flexible disc
Coating type	Standard (vacuum impregnation)

CONTROL MODULE

Deep Sea DSE6120



SINGLE GEN-SET CONTROL

AMF CONTROL

Automatic mains failure controller for one gen-set, with three-phase mains and generator monitoring, flexible I/O and electronic or non-electronic engine versions.

CORE FUNCTIONS

01	Automatic transfer between mains and generator power	05	Event log for 10 events plus engine-hours counter
02	3-phase mains and generator voltage monitoring	06	6 digital inputs and 3 analog sender inputs
03	Generator current monitoring and protection	07	Six outputs; configuration depends on the engine version
04	CAN-engine or magnetic-pick-up/alternator-sensing versions	08	PC/front-panel configuration; optional IP65 front gasket

CONNECTIVITY

DSE6120 · Interfaces, sensing and I/O

USB CAN / MPU 6 INPUTS 6 OUTPUTS

COMMUNICATION AND MONITORING FEATURES

- 01

USB connects to DSE Configuration Suite for controller setup
- 02

Choose CAN-engine or magnetic-pick-up/alternator-sensing version
- 03

DSE6120 includes dedicated 3-phase mains sensing
- 04

3-phase generator voltage and current monitoring is built in
- 05

Six digital inputs and three analog senders support field signals
- 06

Four outputs are configurable on MPU/alternator version; six on CAN
- 07

Remote-start input, test mode and configurable timers are included

ORDERING OPTIONS

CAN ENGINE VERSION · MPU / ALTERNATOR VERSION

Engine sensing and output configuration depend on the selected controller variant.