



### DESCRIPTIVE

- Electronic governor
- Mechanically welded chassis with antivibration suspension
- Main line circuit breaker
- Radiator for wiring temperature of 48/50°C max with mechanical fan
- Protective grille for fan and rotating parts
- 9 dB(A) silencer supplied separately
- Charger DC starting battery with electrolyte
- 12 V charge alternator and starter
- Delivered with oil and coolant -30°C
- Manual for use and installation

## **JD275M**

Engine type	6081HF001 / 6090HF475
Alternator type	ECO38 1LN/4
Performance class	G3

GENERAL CHARACTERISTICS	
Frequency (Hz)	50
Reference voltage (V)	400/230
Max power ESP (kVA)	275
Max power ESP (kWe)	220
Max power PRP (kVA)	250
Max power PRP (kWe)	200
Intensity (A)	397
Standard Control Panel	6110
Optional control panel	4520

## **DIMENSIONS AND NOISE LEVELS**

DIMENSIONS COMPACT VERSION	
Length (mm)	2900
Width (mm)	1300
Height (mm)	1697
Dry weight (kg)	2135
Tank capacity (L)	390



### **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

#### **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 UNCERTAINLY**

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.

#### **GENERAL CHARACTERISTICS ESP** PRP Voltage Standby Amps kWe kVA kVA kWe 415/240 211 264 192 240 367 400/230 220 275 200 250 397 220 275 200 250 418 380/220 240/120 211 264 192 240 635 230/115 220 275 200 250 690 220 275 722 220/110 200 250 200/115 220 275 200 250 794

# PRIMAX<sub>®</sub>

# **JD275M**

## **ENGINE SPECIFICATIONS**

GENERAL ENGINE DATAS	
Engine model	JOHN DEERE 6081 / 6090, 4 temps, Turbo Air/Air DC 6 X
Cylinder arrangement	L
Displacement (C.I.)	9L
Bore (mm) x Stroke (mm)	116 x 129
Compression ratio	15.7:1
Speed (RPM)	1500
Pistons speed (m/s)	6.45
Maximum stand-by power at rated RPM (kW)	240
Frequency regulation (%)	+/- 0.5%
BMEP (bar)	26.66
Governor type	Electronic

COOLING SYSTEM	
Radiator & Engine capacity (L)	40
Max water temperature (°C)	105
Outlet water temperature (°C)	93
Fan power (kW)	7
Fan air flow w/o restriction (m3/s)	5.5
Available restriction on air flow (mm EC)	20
Type of coolant	Gencool
Thermostat (°C)	82-94

EMISSIONS	
Emission PM (mg/Nm3)	0.1
Emission CO (mg/Nm3)	0.51
Emission HCNOx (g/kWh)	3.73
Emission HC (mg/Nm3)	0.11

EXHAUST	
Exhaust gas temperature (°C)	587
Exhaust gas flow (L/s)	740
Max. exhaust back pressure (mm EC)	750
FUEL PRIME RATING	
Consumption @ 110% load (Kg/h)	56.6
Consumption @ 100% load (Kg/h)	50.7
Consumption @ 75% load (Kg/h)	38.1
Consumption @ 50% load (Kg/h)	25.2
Maximum fuel pump flow (Kg/h)	203
OIL	
Oil capacity (L)	35
Min. oil pressure (bar)	1.9
Max. oil pressure (bar)	2.6
Oil consumption 100% load (L/h)	0.17
Carter oil capacity (L)	34
HEAT BALANCE	
Heat rejection to exhaust (kW)	N/A
Radiated heat to ambiant (kW)	N/A
Haet rejection to coolant (kW)	112+40.4
AIR INTAKE	
Max. intake restriction (mm EC)	375
Intake air flow (L/s)	378.33





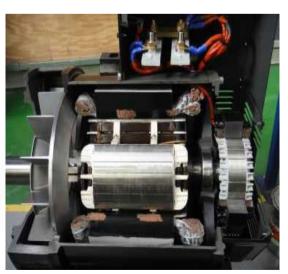
# **JD275M**

## **ALTERNATOR SPECIFICATIONS**

GENERAL DATAS	
Alternator brand	Meccalte
Alternator type	ECO38 1LN/4
Number of phase	3
Power factor (Cos Phi)	0.8
Altitude (m)	0 à 1000
Overspeed (rpm)	2250
Number of pole	4
Excitation system	Brushless
Insulation class / T° class, continuous 40°C	H / H / 125°K
Regulation	DSR
Harmonic factor, no load TGH/THC (%)	<2.5
Wave form : NEMA=TIF-(TGH/THC)	<50
Wave form : CEI=FHT-(TGH/THC)	<2
Number of bearing	1
Coupling	Direct
Voltage regulation at established rating (%)	+/- 0.5%
Recovery time (Delta U = 20% transcient) (ms)	500 ms

OTHER DATAS	
Continuous Nominal Rating 40°C (kVA)	250
Standby Rating 27°C (kVA)	275
Efficiencies 4/4 load (%)	93
Air flow (m3/s)	0.43
Short circuit ratio (Kcc)	0.48
Direct axis synchro reactance unsaturated (Xd) (%)	294
Quadra axis synchro reactance unsaturated (Xq) (%)	176
Open circuit time constant (T'do) (ms)	2175
Direct axis transcient reactance saturated (X'd) (%)	13.5
Short circuit transcient time constant (T'd) (ms)	100
Direct axis subtranscient reactance saturated (X"d) (%	)8.1
Subtranscient time constant (T"d) (ms)	10
Quadra axis subtranscient reactance saturated (X"q) (%)	10
Zero sequence reactance unsaturated (Xo) (%)	0.7
Negative sequence reactance saturated (X2) (%)	9.1
Armature time constant (Ta) (ms)	15
No load excitation current (io) (A)	1.1
Full load excitation current (ic) (A)	3.9
Full load excitation voltage (uc) (V)	33
Recovery time (Delta U = 20% transcient) (ms)	500 ms
Engine start (Delta U = 20% perm. or 50% trans.) (kVA)	538
Transcient dip (4/4 load) - PF : 0,8 AR (%)	14.6
No load losses (W)	4340
Heat rejection (W)	16810







## **JD275M**

## **CONTROL PANEL**

# DEEP SEA PLC 6110, comprehensive and simple



The 6110 is a versatile control unit allowing operation in manual or automatic mode. Equipped with an LCD screen, the user-friendly 6110 offers high-quality basic functions to guarantee simple, reliable operation of your generating set.

Offers the following functions:

**Standard electrical measurements:** voltmeter, frequency meter, ammeter.

**Engine parameters:** working hours counter, engine speed, battery voltage, fuel level.

**Alarms and faults:** oil pressure, coolant temperature, failure to start, overspeed (> 60 kVA), charging alternator fault, low fuel level, emergency stop.

For more information, please refer to the sales documentation.

DEEP SEA 4520, ergonomic and user-friendly



The highly versatile 4520 control unit is complex yet accessible, thanks to the particular attention paid to optimising its ergonomics and ease of use. With its large display screen, buttons and scroll wheel, it places the accent on simplicity and communication.

The 4520 offers the following functions:

**Electrical measurements:** voltmeter, frequency meter, ammeter.

**Engine parameters:** working hours counter, oil pressure, coolant temperature, fuel level, engine speed, battery voltage.

**Alarms and faults:** oil pressure, coolant temperature, failure to start, overspeed, alternator min./max., battery voltage min./max., emergency stop, fuel level.

**Ergonomics:** wheel for navigating around the various menus.

**Communication:** remote control and operation software, USB connections, PC connection.

For more information on the product and its options, please refer to the sales documentation.