

JD66M

Engine type Alternator type

4045TF158R ECO32 2L/4

GENERA	TERISTICS

Frequency (Hz)	50
Reference voltage (V)	400/230
Max power ESP (kVA)	66
Max power ESP (kWe)	52.8
Max power PRP (kVA)	60
Max power PRP (kWe)	48
Intensity (A)	95
Standard Control Panel	610
Optional control panel	4610

DIMENSIONS AND NOISE LEVELS

DIMENSIONS COMPACT VERSION	
Length (mm)	1870
Width (mm)	994
Height (mm)	1360
Dry weight (kg)	1000
Tank capacity (L)	180



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.

POWER	S				
Voltago	ESP		PRP		Standby Ampa
Voltage	kWe	kVA	kWe	kVA	Standby Amps
415/240	53	66	48	60	92
400/230	53	66	48	60	95
380/220	53	66	48	60	100
240 TRI	53	66	48	60	159
230 TRI	53	66	48	60	166
220 TRI	53	66	48	60	173
220/127	53	66	48	60	173
200/115	53	66	48	60	191

Mechanic governor

DESCRIPTIVE

- Mechanically welded chassis with antivibration suspension
- Main line circuit breaker
- Radiator for wiring temperature with mechanical fan
- Protective grille for fan and rotating parts
- Heavy Duty 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

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ENGINE SPECIFICATIONS

GENERAL ENGINE DATAS

Engine model	John deere 4045TF158R , 4 stroke, Turbo ,4 cylinder
Cylinder arrangement	L
Displacement (C.I.)	4.48
Bore (mm) x Stroke (mm)	106 x 127
Compression ratio	17 : 1
Speed (RPM)	1500
Pistons speed (m/s)	6.35
Maximum stand-by power at rated RPM (kW)	70
Frequency regulation (%)	+/- 2.5%
BMEP (bar)	11.24
Governor type	Mechanical

COOLING SYSTEM

23.6
105
93
1.4
2.53
20
cool
82-94

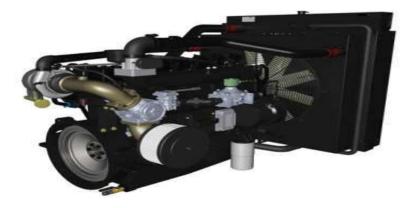
EMISSIONS

Emission PM (mg/Nm3)	60
Emission CO (mg/Nm3)	190
Emission HCNOx (g/kWh)	N/A
Emission HC (mg/Nm3)	150

EXHAUST	
Exhaust gas temperature (°C)	545
Exhaust gas flow (L/s)	176
Max. exhaust back pressure (mm EC)	750
FUEL	
Consumption @ 110% load (L/h)	17.5
Consumption @ 100% load (L/h)	16
Consumption @ 75% load (L/h)	12
Consumption @ 50% load (L/h)	8.5
Maximum fuel pump flow (L/h)	108
OIL	
Oil capacity (L)	13.5
Min. oil pressure (bar)	1
Max. oil pressure (bar)	5
Oil consumption 100% load (L/h)	0.02
Carter oil capacity (L)	12.5
HEAT BALANCE	
Heat rejection to exhaust (kW)	54

Heat rejection to exhaust (kW)	54
Radiated heat to ambiant (kW)	8
Haet rejection to coolant (kW)	35

AIR INTAKE	
Max. intake restriction (mm EC)	625
Intake air flow (L/s)	66



GENERAL DATAS	
Alternator brand	MeccAlte
Alternator type	ECO32 2L/4
Number of phase	3
Power factor (Cos Phi)	0.8
Altitude (m)	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	N/A
Wave form : NEMA=TIF-(TGH/THC)	N/A
Wave form : CEI=FHT-(TGH/THC)	N/A
Number of bearing	1
Coupling	Direct
Voltage regulation at established rating (%)	+/- 1.5%
Recovery time (Delta U = 20% transcient) (ms)	N/A

JD66M ALTERNATOR SPECIFICATIONS

OTHER DATAS

Continuous Nominal Rating 40°C (kVA)	60
Standby Rating 27°C (kVA)	66
Efficiencies 4/4 load (%)	90.3
Air flow (m3/s)	0.196
Short circuit ratio (Kcc)	0.60
Direct axis synchro reactance unsaturated (Xd) (%)	270
Quadra axis synchro reactance unsaturated (Xq) (%)	106
Open circuit time constant (T'do) (sec)	1.20
Direct axis transcient reactance saturated (X'd) (%)	12.8
Short circuit transcient time constant (T'd) (sec)	0.062
Direct axis subtranscient reactance saturated (X"d) (%)6.8
Subtranscient time constant (T"d) (sec)	0.014
Quadra axis subtranscient reactance saturated (X"q) (%)	33
Zero sequence reactance unsaturated (Xo) (%)	3
Negative sequence reactance saturated (X2) (%)	22.3
Armature time constant (Ta) (sec)	0.028
No load excitation current (io) (A)	0.6
Full load excitation current (ic) (A)	1.9
Full load excitation voltage (uc) (V)	N/A
Recovery time (Delta U = 20% transcient) (ms)	N/A
Engine start (Delta U = 20% perm. or 50% trans.) (kVA)	N/A
Transcient dip (4/4 load) - PF : 0,8 AR (%)	N/A
No load losses (W)	N/A
Heat rejection (W)	5156





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CONTROL PANEL

HARSEN 610, comprehensive and simple



The 610 is a versatile control unit allowing operation in manual or automatic mode. Equipped with an LCD screen, the user-friendly 610 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 4610, ergonomic and user-friendly



The highly versatile 4610 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 4610offers 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.