PRIMAX®



DESCRIPTIVE

- Mechanic 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

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.

JD44M

Engine type	3029TF158
Alternator type	ECO32 3S/4

GENERAL CHARACTERISTICS	
Frequency (Hz)	50
Reference voltage (V)	400/230
Max power ESP (kVA)	44
Max power ESP (kWe)	35.2
Max power PRP (kVA)	40
Max power PRP (kWe)	32
Intensity (A)	64
Standard Control Panel	610
Optional control panel	4610

DIMENSIONS AND NOISE LEVELS

DIMENSIONS COMPACT VERSION	
Length (mm)	1700
Width (mm)	896
Height (mm)	1221
Dry weight (kg)	820
Tank capacity (L)	100



POWERS ESP PRP Standby Amps Voltage kWe kVA kWe kVA 415/240 35 44 32 40 61 400/230 35 44 32 40 64 380/220 35 44 32 40 67 240 TRI 35 44 32 40 106 230 TRI 35 44 32 40 110 220 TRI 35 44 32 40 115 28 25 220/127 35 32 92 200/115 35 44 32 40 127

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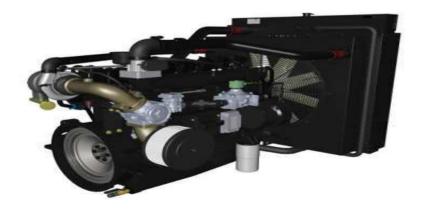
ENGINE SPECIFICATIONS

GENERAL ENGINE DATAS	
Engine model	John Deere 3029TF158 , 4 stroke Turbo ,3 cylinder
Cylinder arrangement	L
Displacement (C.I.)	2.91
Bore (mm) x Stroke (mm)	106 x 110
Compression ratio	17.8
Speed (RPM)	1500
Pistons speed (m/s)	5.5
Maximum stand-by power at rated RPM (kW)	42
Frequency regulation (%)	+/- 2.5%
BMEP (bar)	10.44
Governor type	Mechanical

COOLING SYSTEM	
Radiator & Engine capacity (L)	16.1
Max water temperature (°C)	105
Outlet water temperature (°C)	93
Fan power (kW)	1.3
Fan air flow w/o restriction (m3/s)	1.86
Available restriction on air flow (mm EC)	20
Type of coolant	cool
Thermostat (°C)	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)	510
Exhaust gas flow (L/s)	105.6
Max. exhaust back pressure (mm EC)	625
FUEL	
Consumption @ 110% load (L/h)	10.8
Consumption @ 100% load (L/h)	9.8
Consumption @ 75% load (L/h)	7.5
Consumption @ 50% load (L/h)	5.3
Maximum fuel pump flow (L/h)	111
OIL	
Oil capacity (L)	6
Min. oil pressure (bar)	1
Min. oil pressure (bar) Max. oil pressure (bar)	1 5
	·
Max. oil pressure (bar)	5
Max. oil pressure (bar) Oil consumption 100% load (L/h)	5 0.01
Max. oil pressure (bar) Oil consumption 100% load (L/h)	5 0.01
Max. oil pressure (bar) Oil consumption 100% load (L/h) Carter oil capacity (L)	5 0.01
Max. oil pressure (bar) Oil consumption 100% load (L/h) Carter oil capacity (L) HEAT BALANCE	5 0.01 5.3
Max. oil pressure (bar) Oil consumption 100% load (L/h) Carter oil capacity (L) HEAT BALANCE Heat rejection to exhaust (kW)	5 0.01 5.3
Max. oil pressure (bar) Oil consumption 100% load (L/h) Carter oil capacity (L) HEAT BALANCE Heat rejection to exhaust (kW) Radiated heat to ambiant (kW)	5 0.01 5.3 38 5
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Max. oil pressure (bar) Oil consumption 100% load (L/h) Carter oil capacity (L) HEAT BALANCE Heat rejection to exhaust (kW) Radiated heat to ambiant (kW) Haet rejection to coolant (kW)	5 0.01 5.3 38 5



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ALTERNATOR SPECIFICATIONS

GENERAL DATAS	
Alternator brand	MeccAlte
Alternator type	ECO32 3S/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

40
44
87.4
0.2
8.0
190
98
1.4
14.3
61
10
15
30.6
2.7
21.5
31
0.7
2.2
N/A
4117







PRIMAX®

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 4610 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.