



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 (CE option)
- 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 Inlet 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 indoors, 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 ref.	6068HF120-183
Alternator ref.	AT01132T
Performance class	G3

GENERAL CHARACTERISTICS

Frequency (Hz)	60
Voltage (V)	480/277
Standard Control Panel	NEXYS
Optional control panel	TELYS

POWER

Voltage	ESP		PRP		Standby Amps
	kWe	kVA	kWe	kVA	
480/277	175	219	159	199	263
440/254	175	219	159	199	287
220/127	175	219	159	199	575
208/120	175	219	159	199	608
600/347	175	219	159	199	211

DIMENSIONS COMPACT VERSION

Length (mm)	2370
Width (mm)	1114
Height (mm)	1480
Dry weight (kg)	1730
Tank capacity (L)	340

DIMENSIONS SOUNDPROOFED VERSION

Commercial reference of the enclosure	M226
Length (mm)	3508
Width (mm)	1200
Height (mm)	1830
Dry weight (kg)	2320
Tank capacity (L)	340
Acoustic pressure level @1m in dB(A)	80
Sound power level guaranteed (Lwa)	0



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ENGINE CHARACTERISTICS

GENERAL ENGINE DATA

Engine model	JOHN DEERE
Engine ref.	6068HF120-183
Air inlet	Turbo
Cylinders arrangement	L
Number of cylinders	6
Displacement (C.I.)	6.72
Air coolant	Air/Air DC
Bore (mm) x Stroke (mm)	106 x 127
Compression ratio	17 : 1
Speed (RPM)	1800
Pistons speed (m/s)	7.62
Maximum stand-by power at rated RPM (kW)	197
Frequency regulation (%)	+/- 2.5%
BMEP (bar)	17.70
Governor type	Mechanical

COOLING SYSTEM

Radiator & Engine capacity (L)	25.80
Max water temperature (°C)	105
Outlet water temperature (°C)	93
Fan power (kW)	5.90
Fan air flow w/o restriction (m3/s)	5.20
Available restriction on air flow (mm Water Column)	20
Type of coolant	Glycol-Ethylene
Thermostat (°C)	82-94

EMISSIONS

Emission PM (g/kWh)
Emission CO (g/kW.h)
Emission HCNOx (g/kWh)
Emission HC (g/kW.h)

EXHAUST

Exhaust gas temperature (°C)	520
Exhaust gas flow (L/s)	595
Max. exhaust back pressure (mm EC)	750

FUEL

Fuel consumption 110% load (L/hr)	51.90
Fuel consumption 100% load (L/hr)	47.20
Fuel consumption 75% (L/h)	36.10
Fuel consumption 50% (L/h)	23.50
Maximum fuel pump flow (L/h)	112

OIL

Oil capacity (L)	31.50
Min. oil pressure (bar)	1
Max. oil pressure (bar)	5
Oil consumption 100% load (L/h)	0.0590
Carter oil capacity (L)	32

HEAT BALANCE

Heat rejection to exhaust (kW)	160
Radiated heat to ambient (kW)	26
Heat rejection to coolant (kW)	87

AIR INTAKE

Max. intake restriction (mm EC)	625
Intake air flow (L/s)	270



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ALTERNATOR CHARACTERISTICS

GENERAL DATA

Alternator commercial brand	SDMO
Alternator ref.	AT01132T
Number of Phase	Three phase
Power factor (Cos Phi)	0.80
Altitude (m)	0 to 1000
Overspeed (rpm)	2250
Number of pole	4
Capacity for maintaining short circuit at 3 In for 10 s	No
Insulation class	H
T° class, continuous 40°C	H / 125°K
T° class, standby 27°C	H / 163°K
AVR Regulation	Yes
Total Harmonic Distortion in no-load DHT (%)	<2.5
Total Harmonic Distortion, on load DHT (%)	<2.5
Wave form : NEMA=TIF	<50
Wave form : CEI=FHT	<2
Number of bearing	1
Coupling	Direct
Voltage regulation at established rating (+/- %)	
Recovery time (Delta U = 20% transient) (ms)	500
Indication of protection	IP 23
Technology	Without collar or brush

OTHER DATA

Continuous Nominal Rating 40°C (kVA)	228
Standby Rating 27°C (kVA)	255
Efficiencies 100% of load (%)	92.10
Air flow (m3/s)	0.51
Short circuit ratio (Kcc)	0.41
Direct axis synchro reactance unsaturated (Xd) (%)	329
Quadra axis synchro reactance unsaturated (Xq) (%)	197
Open circuit time constant (T"do) (ms)	1971
Direct axis transient reactance saturated (X"d) (%)	16.70
Short circuit transient time constant (T"d) (ms)	100
Direct axis subtransient reactance saturated (X""d) (%)	10
Subtransient time constant (T""d) (ms)	10
Quadra axis subtransient reactance saturated (X""q) (%)	12.40
Subtransient time constant (T"q) (ms)	10
Zero sequence reactance unsaturated (Xo) (%)	0.50
Negative sequence reactance saturated (X2) (%)	11.20
Armature time constant (Ta) (ms)	15
No load excitation current (io) (A)	1
Full load excitation current (ic) (A)	4
Full load excitation voltage (uc) (V)	34
Engine start (Delta U = 20% perm. or 50% trans.) (kVA)	420
Transient dip (4/4 load) - PF : 0,8 AR (%)	16.70
No load losses (W)	4180
Heat rejection (W)	15570
Unbalanced load acceptance ratio (%)	100

DIMENSIONS

CONTAINMENT

Commercial reference of the enclosure	M226 DW
Length (mm)	3560
Width (mm)	1200
Height (mm)	2182
Dry weight (kg)	2713
Tank capacity (L)	868
Acoustic pressure level @1m in dB(A)	80
Sound power level guaranteed (Lwa)	0



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CONTROL PANEL

NEXYS, comprehensive and simple

TELYS, ergonomic and user-friendly



The NEXYS is a versatile control unit allowing operation in manual or automatic mode. Equipped with an LCD screen, the user-friendly NEXYS 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 (sup. to 60 Kva), charging alternator fault, low fuel level, emergency stop.

For more information, please refer to the sales documentation.

The highly versatile TELYS 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 TELYS 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.

