



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 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.

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.

J200K

Engine type	6068HF120-183
Alternator type	LSA 46.2 M3

GENERAL CHARACTERISTICS

Frequency (Hz)	50
Reference voltage (V)	400/230
Max power ESP (kVA)	200
Max power ESP (kWe)	160
Max power PRP (kVA)	181.8
Max power PRP (kWe)	145.5
Intensity (A)	289
Standard Control Panel	NEXYS
Optional control panel	TELYS

DIMENSIONS AND NOISE LEVELS

DIMENSIONS COMPACT VERSION

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

DIMENSIONS SOUNDPROOFED VERSION

Canopy	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) (associated uncertainty)	76 (1.25)
Sound power level guaranteed (Lwa) in dB(A)	95

POWERS

Voltage	ESP		PRP		Standby Amps
	kWe	kVA	kWe	kVA	
415/240	160	200	145	182	278
400/230	160	200	145	182	289
380/220	160	200	145	182	304
240 TRI	160	200	145	182	481
230 TRI	160	200	145	182	502
220 TRI	160	200	145	182	525
200/115	160	200	145	182	577

J200K

ENGINE SPECIFICATIONS

GENERAL ENGINE DATAS

Engine model	JOHN DEERE 6068HF120-183 , 4-temps, Turbo , Air/Air DC 6 X
Cylinder arrangement	L
Displacement (C.I.)	6.72
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)	183
Frequency regulation (%)	+/- 2.5%
BMEP (bar)	20.22
Governor type	Mechanical

COOLING SYSTEM

Radiator & Engine capacity (L)	25.8
Max water temperature (°C)	105
Outlet water temperature (°C)	93
Fan power (kW)	3.4
Fan air flow w/o restriction (m3/s)	4.6
Available restriction on air flow (mm EC)	20
Type of coolant	Gencool
Thermostat (°C)	82-94

EMISSIONS

Emission PM (mg/Nm3)	80
Emission CO (mg/Nm3)	180
Emission HCNOx (g/kWh)	N/A
Emission HC (mg/Nm3)	15

EXHAUST

Exhaust gas temperature (°C)	565
Exhaust gas flow (L/s)	457
Max. exhaust back pressure (mm EC)	750

FUEL

Consumption @ 110% load (L/h)	45.2
Consumption @ 100% load (L/h)	40.8
Consumption @ 75% load (L/h)	31.3
Consumption @ 50% load (L/h)	20.5
Maximum fuel pump flow (L/h)	108

OIL

Oil capacity (L)	31.5
Min. oil pressure (bar)	1
Max. oil pressure (bar)	5
Oil consumption 100% load (L/h)	0.05
Carter oil capacity (L)	32

HEAT BALANCE

Heat rejection to exhaust (kW)	138
Radiated heat to ambient (kW)	23
Heat rejection to coolant (kW)	76

AIR INTAKE

Max. intake restriction (mm EC)	625
Intake air flow (L/s)	205

GENERAL DATAS

Alternator brand	LERROY SOMER
Alternator type	LSA 46.2 M3
Number of phase	3
Power factor (Cos Phi)	0.8
Altitude (m)	0 à 1000
Overspeed (rpm)	2250
Number of pole	4
Excitation system	SHUNT
Insulation class / T° class, continuous 40°C	H / H / 125°K
Regulation	N/A
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% transient) (ms)	500 ms

OTHER DATAS

Continuous Nominal Rating 40°C (kVA)	180
Standby Rating 27°C (kVA)	203
Efficiencies 4/4 load (%)	91.7
Air flow (m3/s)	0.43
Short circuit ratio (Kcc)	0.44
Direct axis synchro reactance unsaturated (Xd) (%)	312
Quadra axis synchro reactance unsaturated (Xq) (%)	187
Open circuit time constant (T'do) (ms)	1971
Direct axis transient reactance saturated (X'd) (%)	15.8
Short circuit transient time constant (T'd) (ms)	100
Direct axis subtransient reactance saturated (X''d) (%)	9.5
Subtransient time constant (T''d) (ms)	10
Quadra axis subtransient reactance saturated (X''q) (%)	11.8
Zero sequence reactance unsaturated (Xo) (%)	0.5
Negative sequence reactance saturated (X2) (%)	10.6
Armature time constant (Ta) (ms)	15
No load excitation current (io) (A)	1
Full load excitation current (ic) (A)	3.9
Full load excitation voltage (uc) (V)	33
Recovery time (Delta U = 20% transient) (ms)	500 ms
Engine start (Delta U = 20% perm. or 50% trans.) (kVA)	340
Transient dip (4/4 load) - PF : 0,8 AR (%)	16.2
No load losses (W)	2810
Heat rejection (W)	12900

CONTAINMENT

Canopy	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) (associated uncertainty)	75 (1.25)
Sound power level guaranteed (Lwa) in dB(A)	95

CONTAINMENT 48H

Canopy	M226 DW48
Length (mm).	3560
Width (mm).	1200
Height (mm).	2358
Dry weight (kg).	2978
Tank capacity (L).	1630
Acoustic pressure level @1m in dB(A) (associated uncertainty)	75 (1.25)
Sound power level guaranteed (Lwa) in dB(A)	95

DIMENSIONS AND NOISE LEVELS

NEXYS, comprehensive and simple



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 (> 60 kVA), charging alternator fault, low fuel level, emergency stop.

For more information, please refer to the sales documentation.

TELYS, ergonomic and user-friendly



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.