



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.

J220C2

Engine type	6068HFS77
Alternator type	LSA 46.2 M5

GENERAL CHARACTERISTICS

Frequency (Hz)	50
Reference voltage (V)	400/230
Max power ESP (kVA)	220
Max power ESP (kWe)	176
Max power PRP (kVA)	200
Max power PRP (kWe)	160
Intensity (A)	318
Standard Control Panel	NEXYS
Optional control panel	TELYS

DIMENSIONS AND NOISE LEVELS

DIMENSIONS COMPACT VERSION

Length (mm)	2398
Width (mm)	1114
Height (mm)	1480
Dry weight (kg)	1790
Tank capacity (L)	340

DIMENSIONS SOUNDPROOFED VERSION

Canopy	M226
Length (mm).	3508
Width (mm).	1200
Height (mm).	1830
Dry weight (kg).	2390
Tank capacity (L).	340
Acoustic pressure level @1m in dB(A)	78.6
Sound power level guaranteed (Lwa)	97

POWERS

Voltage	ESP		PRP		Standby Amps
	kWe	kVA	kWe	kVA	
415/240	176	220	160	200	306
400/230	176	220	160	200	318
380/220	176	220	160	200	334
240 TRI	176	220	160	200	529
230 TRI	176	220	160	200	552
220 TRI	176	220	160	200	577
200/115	176	220	160	200	635



J220C2

TECHNICAL SPECIFICATIONS

GENERAL ENGINE DATAS

Engine model	JOHN DEERE 6068HFS77 , 4- temps, TURBO , AIR/AIR 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)	207
Frequency regulation (%)	0.5
BMEP (bar)	22.37
Governor type	ELEC

COOLING SYSTEM

Radiator & Engine capacity (L)	30
Max water temperature (°C)	105
Outlet water temperature (°C)	93
Fan power (kW)	3
Fan air flow w/o restriction (m3/s)	5.1
Available restriction on air flow (mm EC)	20
Type of coolant	COOLELF-SX
Thermostat (°C)	82-94

EMISSIONS

Emission PM (g/kW.h)	0,053
Emission CO (g/kW.h)	N/A
Emission HCNOx (g/kWh)	5,6
Emission HC (g/kW.h)	N/A

EXHAUST

Exhaust gas temperature (°C)	567
Exhaust gas flow (L/s)	545
Max. exhaust back pressure (mm EC)	750

FUEL

Consumption @ 110% load (L/h)	50
Consumption @ 100% load (L/h)	45
Consumption @ 75% load (L/h)	34
Consumption @ 50% load (L/h)	23
Maximum fuel pump flow (L/h)	N/A

OIL

Oil capacity (L)	33
Min. oil pressure (bar)	1
Max. oil pressure (bar)	2.6
Oil consumption 100% load (L/h)	N/A
Carter oil capacity (L)	32

HEAT BALANCE

Heat rejection to exhaust (kW)	N/A
Radiated heat to ambient (kW)	N/A
Haet rejection to coolant (kW)	80+28

AIR INTAKE

Max. intake restriction (mm EC)	625
Intake air flow (L/s)	197



J220C2

ALTERNATOR SPECIFICATIONS

GENERAL DATAS

Alternator brand	LEROY SOMER
Alternator type	LSA 46.2 M5
Number of phase	3
Power factor (Cos Phi)	0.8
Altitude (m)	0-1000
Overspeed (rpm)	2250
Number of pole	4
Excitation system	SHUNT
Insulation class / T° class, continuous 40°C	H / H-125
Regulation	R250
Harmonic factor, no load TGH/THC	<2.5
Wave form : NEMA=TIF-(TGH/THC)	INF50
Wave form : CEI=FHT-(TGH/THC)	INF2
Number of bearing	1
Coupling	DIRECT
Voltage regulation at established rating (%)	0.5
Recovery time (Delta U = 20% transient) (ms)	500

OTHER DATAS

Continuous Nominal Rating 40°C (kVA)	200
Standby Rating 27°C (kVA)	223
Efficiencies 4/4 load (%)	92.3
Air flow (m3/s)	0.43
Short circuit ratio (Kcc)	0.45
Direct axis synchro reactance unsaturated (Xd) (%)	301
Quadra axis synchro reactance unsaturated (Xq) (%)	180
Open circuit time constant (T'do) (ms)	2042
Direct axis transient reactance saturated (X'd) (%)	14.7
Short circuit transient time constant (T'd) (ms)	100
Direct axis subtransient reactance saturated (X''d) (%)	8.8
Subtransient time constant (T''d) (ms)	10
Quadra axis subtransient reactance saturated (X''q) (%)	10.9
Zero sequence reactance unsaturated (Xo) (%)	0.8
Negative sequence reactance saturated (X2) (%)	9.9
Armature time constant (Ta) (ms)	15
No load excitation current (io) (A)	1
Full load excitation current (ic) (A)	3.7
Full load excitation voltage (uc) (V)	32
Recovery time (Delta U = 20% transient) (ms)	500
Engine start (Delta U = 20% perm. or 50% trans.) (kVA)	397
Transient dip (4/4 load) - PF : 0,8 AR (%)	15.4
No load losses (W)	3040
Heat rejection (W)	13180

CONTAINMENT

Canopy	M226 DW
Length (mm).	3560
Width (mm).	1200
Height (mm).	2182
Dry weight (kg).	2760
Tank capacity (L).	868
Acoustic pressure level @1m in dB(A)	78.6
Sound power level guaranteed (Lwa)	97

DIMENSIONS AND NOISE LEVELS

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 (> 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.