



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.

J300K

Engine type	6081HF001
Alternator type	LSA 46.2 L9

GENERAL CHARACTERISTICS

Frequency (Hz)	50
Reference voltage (V)	400/230
Max power ESP (kVA)	300
Max power ESP (kWe)	240
Max power PRP (kVA)	272.7
Max power PRP (kWe)	218.2
Intensity (A)	433
Standard Control Panel	NEXYS
Optional control panel	TELYS

DIMENSIONS AND NOISE LEVELS

DIMENSIONS COMPACT VERSION

Length (mm)	2900
Width (mm)	1300
Height (mm)	1697
Dry weight (kg)	2235
Tank capacity (L)	390

DIMENSIONS SOUNDPROOFED VERSION

Canopy	M227
Length (mm).	4004
Width (mm).	1380
Height (mm).	2145
Dry weight (kg).	3215
Tank capacity (L).	390
Acoustic pressure level @1m in dB(A)	79.5
Sound power level guaranteed (Lwa)	95

POWERS

Voltage	ESP		PRP		Standby Amps
	kWe	kVA	kWe	kVA	
415/240	242	303	220	275	422
400/230	242	303	220	275	437
380/220	242	303	220	275	460
240 TRI	242	303	220	275	729
230 TRI	242	303	220	275	761
220 TRI	242	303	220	275	795
200/115	242	303	220	275	875



J300K

TECHNICAL SPECIFICATIONS

GENERAL ENGINE DATAS

Engine model	JOHN DEERE 6081HF001 , 4- temps, TURBO , AIR/AIR 6 X
Cylinder arrangement	L
Displacement (C.I.)	8.18
Bore (mm) x Stroke (mm)	116 x 129
Compression ratio	15.7
Speed (RPM)	1500
Pistons speed (m/s)	6.45
Maximum stand-by power at rated RPM (kW)	261
Frequency regulation (%)	2.5
BMEP (bar)	23.18
Governor type	MECA

COOLING SYSTEM

Radiator & Engine capacity (L)	40
Max water temperature (°C)	105
Outlet water temperature (°C)	93
Fan power (kW)	7
Fan air flow w/o restriction (m3/s)	5.5
Available restriction on air flow (mm EC)	20
Type of coolant	GENCOOL
Thermostat (°C)	82-94

EMISSIONS

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

EXHAUST

Exhaust gas temperature (°C)	640
Exhaust gas flow (L/s)	740
Max. exhaust back pressure (mm EC)	750

FUEL

Consumption @ 110% load (L/h)	68
Consumption @ 100% load (L/h)	56.9
Consumption @ 75% load (L/h)	42.6
Consumption @ 50% load (L/h)	29.4
Maximum fuel pump flow (L/h)	203

OIL

Oil capacity (L)	32
Min. oil pressure (bar)	2.1
Max. oil pressure (bar)	2.75
Oil consumption 100% load (L/h)	0.08
Carter oil capacity (L)	31

HEAT BALANCE

Heat rejection to exhaust (kW)	213
Radiated heat to ambient (kW)	34
Heat rejection to coolant (kW)	103+55

AIR INTAKE

Max. intake restriction (mm EC)	625
Intake air flow (L/s)	303



J300K

ALTERNATOR SPECIFICATIONS

GENERAL DATAS

Alternator brand	LERROY SOMER
Alternator type	LSA 46.2 L9
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)	280
Standby Rating 27°C (kVA)	300
Efficiencies 4/4 load (%)	93
Air flow (m3/s)	0.43
Short circuit ratio (Kcc)	0.48
Direct axis synchro reactance unsaturated (Xd) (%)	294
Quadra axis synchro reactance unsaturated (Xq) (%)	176
Open circuit time constant (T'do) (ms)	2175
Direct axis transient reactance saturated (X'd) (%)	13.5
Short circuit transient time constant (T'd) (ms)	100
Direct axis subtransient reactance saturated (X''d) (%)	8.1
Subtransient time constant (T''d) (ms)	10
Quadra axis subtransient reactance saturated (X''q) (%)	10
Zero sequence reactance unsaturated (Xo) (%)	0.7
Negative sequence reactance saturated (X2) (%)	9.1
Armature time constant (Ta) (ms)	15
No load excitation current (io) (A)	1.1
Full load excitation current (ic) (A)	3.9
Full load excitation voltage (uc) (V)	33
Recovery time (Delta U = 20% transient) (ms)	500
Engine start (Delta U = 20% perm. or 50% trans.) (kVA)	538
Transient dip (4/4 load) - PF : 0,8 AR (%)	14.6
No load losses (W)	4340
Heat rejection (W)	16810

CONTAINMENT

Canopy	M227 DW
Length (mm).	4056
Width (mm).	1380
Height (mm).	2340
Dry weight (kg).	3692
Tank capacity (L).	950
Acoustic pressure level @1m in dB(A)	79.5
Sound power level guaranteed (Lwa)	95

CONTAINMENT 48H

Canopy	M227 DW48
Length (mm).	4056
Width (mm).	1380
Height (mm).	2618
Dry weight (kg).	4270
Tank capacity (L).	2130
Acoustic pressure level @1m in dB(A)	79.5
Sound power level guaranteed (Lwa)	95

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.