

J200K

Motor type 6068HF120-183
Alternator type LSA462M3

GENERAL CHARACTERISTICS

- Mechanic governor
- Mechanically welded chassis with antivibration suspension
- Main line circuit breaker
- Radiator for wiring temperature of 48/50°C max with
- 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



J200K : JOHN DEERE, 6068HF 120-183 - LEROY SOMER, LSA462M3

Voltage (V)	Voltage Code	Power ESP		Power PRP		Standby Amps
		kWe	kVA	kWe	kVA	
415/240	T51A1	160	200	145	182	278
400/230	T51A2	160	200	145	182	289
380/220	T51A3	160	200	145	182	304
240/120	T51C1	160	200	145	182	481
230/115	T51C2	160	200	145	182	502
220/110	T51C3	160	200	145	182	525
200/115	T51B2	160	200	145	182	577

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

Standard reference conditions 25°C Air Inlet Temp, 1000 m A.S.L. 60 % relative humidity. All engine performance data based on the above mentioned maximum continuous ratings.

ENGINE SPECIFICATIONS

	Description	6068HF120-183
GENERAL CHARACTERISTICS	Motor model	JOHN DEERE
	Cylinder arrangement	L
	Number of cylinders	6
	Bore (mm)	106
	Stroke (mm)	127
	Displacement (C.I.)	6.72
	Compression ratio	17 : 1
	Speed (RPM)	1500
	Pistons speed (m/s)	6.35
	Maximum stand-by power at rated RPM (kW)	180
	Governor type	Mechanical
	Frequency regulation (%)	+/- 2.5%
	BMEP (bar)	19.39
EXHAUST	Exhaust gas flow (L/s)	457
	Exhaust gas temperature (°C)	565
	Max. exhaust back pressure (mm CE)	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/hr)	108
OIL SYSTEM	Oil capacity (L)	31.5
	Min. oil pressure (bar)	1
	Max. oil pressure (bar)	5
	Oil consumption 100% load (L/h)	0.052
HEAT BALANCE	Carter oil capacity (L)	32
	Heat rejection to exhaust (kW)	138
	Radiated heat to ambient (kW)	23
AIR INTAKE	Heat rejection to coolant (kW)	76
	Intake air flow (L/s)	205
	Max. intake restriction (mm CE)	625
COOLING SYSTEM	Radiator & Engine capacity (L)	25.8
	Max water temperature (°C)	105
	Outlet water temperature (°C)	93
	Fan power (kW)	3
	Fan air flow w/o restriction (m3/s)	4.6
	Available restriction on air flow (mm CE)	20
	Type of coolant	Gencool
Thermostat (°C)	82-94	
EMISSIONS	Emission HC (mg/Nm3)	15
	Emission Nox (mg/Nm3)	2400
	Emission CO (mg/Nm3)	180
	Emissions PM (mg/Nm3)	80

ALTERNATOR SPECIFICATIONS

GENERAL CHARACTERISTICS	Description	LSA 46.2 M3
	Alternator brand	LEROY SOMER
	Number of phase	3
	Altitude (m)	0 à 1000
	Overspeed (rpm)	2250
	Number of pole	4
	Excitation system	SHUNT
	Insulation class	H
	Regulation	R230
	#Taux d'harmonique à vide TGH/THC	< 2.5%
	#Taux d'harmonique en charge TGH/THC	< 2.5%
	Wave form : CEI=FHT-(TGH/THC)	< 2%
	Wave form : NEMA=TIF-(TGH/THC)	< 50
	Number of bearing	1
	Coupling	Direct
	#Régulation de tension à régime établi (%)	+/- 0.5%
	Air flow (m3/s)	0.43
POWERS	Power factor (Cos Phi)	0.8
	Continuous Nominal Rating 40°C (kVA)	180
	Standby Nominal Rating 40°C (kVA)	195
	Standby Rating 27°C (kVA)	203
	Efficiencies 4/4 load (%)	91.7
REACTANCES (R) - TIME CONSTANT(CT)	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	
OTHER CHARACTERISTICS	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% transitoire) (ms)	500
	Motor start (Delta U = 20% perm. or 50% trans.)	340
	Transient dip (4/4 charge) - PF : 0,8 AR (%)	16.2
	No load losses (W)	2810
	Heat rejection (W)	12900

DIMENSIONS AND NOISE LEVELS

DIMENSIONS COMPACT VERSION	Length (mm)	2370
	Width (mm)	1114
	Height (mm)	1480
	Tank capacity (L)	340
	Dry weight (kg)	1730
DIMENSIONS CANOPIED VERSION	Canopy	M226
	Length (mm).	3508
	Width (mm).	1200
	Height (mm).	1830
	Tank capacity (L).	340
	Dry weight (kg).	2320
NOISE LEVEL	dB(A) @1m (50Hz)	79.4
	dB(A) @7m (50Hz)	69
	dB(A) @15m (50Hz)	65
	LWa (50Hz)	95

CONTAINMENT

DIMENSIONS COMPACT VERSION	Length (mm)	3560
	Width (mm)	1180
	Height (mm)	1822
	Tank capacity (L)	868
	Dry weight (kg)	2133
DIMENSIONS CANOPIED VERSION	Canopy	M226 DW
	Length (mm).	3560
	Width (mm).	1200
	Height (mm).	2182
	Tank capacity (L).	868
	Dry weight (kg).	2713
NOISE LEVEL	dB(A) @1m (50Hz)	79.4
	dB(A) @7m (50Hz)	69
	dB(A) @15m (50Hz)	65
	LWa (50Hz)	95

CONTROL PANELS

DESCRIPTION OF STANDARD CONTROL PANEL



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.

DESCRIPTION OF CONTROL PANEL AS OPTION



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,