

J200UC3

Tiers 3
 Engine JOHN DEERE , 6068HFS89
 Alternator LEROY SOMER , LSA462M5

STANDARD FEATURES

- Electronic governor
- Mechanically welded chassis with antivibration suspension
- Power circuit breaker
- Radiator for wiring T° of 50°C [122°F] max with mechanical fan
- Protective grille for fan and rotating parts
- 9dB(A) silencer supplied separately
- Charged DC starting battery with electrolyte
- 12 V charging alternator and starter
- Supplied with oil and coolant -30°C
- User manual and commissioning guide



Voltage	Power ESP kWe/kVA	Power PRP kWe/kVA	Standby Amps	Dimensions	Weight
480/277	200 / 250	182 / 227	301	Length: 2370mm [93in] Width: 1114mm [44in] Height: 1503mm [59in]	1850kg [4079 lbs] Net 2210kg [4872 lbs] Gross
440/254	200 / 250	182 / 227	328		
380/220	200 / 250	182 / 227	380		
240/120	190 / 238	173 / 216	573		
230/115	185 / 231	168 / 210	580		
220/127	200 / 250	182 / 227	656		
208/120	190 / 238	173 / 216	661		
600/347	200 / 250	182 / 227	241		



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. A 10% overload capability is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO 3046-1 –

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.

TERM OF USE

Standard reference conditions 25 °C Air Inlet Temp, 3000 m A.S.L. 60 % relative humidity. All engine performance data based on the above mentioned maximum continuous ratings.

Type		dB(A)@1m	dB(A)@7m	Dimensions	Weight	Tank
	M226	80	70	Length: 3508mm [138in] Width: 1200mm [47in] Height: 1830mm [72in]	2460kg [5423lbs] Net 2820kg [6217lbs] Gross	340 L
	M226-DW	80	70	Length: 3560mm [140in] Width: 1200mm [47in] Height: 2182mm [86in]	2930kg [6460lbs] Net 3760kg [8289lbs] Gross	868 L





ENGINE SPECIFICATIONS

STANDARD FEATURES	Manufacturer / Model	JOHN DEERE 6068HFS89 , 4-strokes, Turbo , Air/Water SC 6 X
	Cylinder Arrangement	L
	Displacement	6.8L [415.0C.I.]
	Bore and Stroke	106mm [4.2in.] X 127mm [5.0in.]
	Compression ratio	19 : 1
	Rated RPM	1800 Rpm
	Piston Speed	7.62m/s [25.0ft./s]
	Max. stand by Power at rated RPM	235.00kW [315BHP]
	Frequency regulation, steady state	+/- 0.5%
	BMEP	23.04bar [334psi]
	Governor : type	ELEC
EXHAUST SYSTEM	Exhaust temperature	485°C [905°F]
	Exhaust gas flow	715.00L/s [1515cfm]
	Max back pressure	1000mm CE [39in. WG]
FUEL SYSTEM	110% (Stand By power)	58.59L/h [15.5gal/hr]
	100% (of the Prime Power)	51.88L/h [13.7gal/hr]
	75% (of the Prime Power)	30.00L/h [7.9gal/hr]
	50% (of the Prime Power)	25.29L/h [6.7gal/hr]
	Max. fuel pump flow	92.59L/h [24.5gal/hr]
OIL SYSTEM	Total oil capacity w/filters	33L [8.7gal]
	Oil Pressure low idle	1.05bar [15.2psi]
	Oil Pressure rated RPM	3.39bar [49.1psi]
	Oil consumption 100% load	0.13L/h [0.034gal/hr]
	Oil capacity carter	32L [8.5gal]
THERMAL BALANCE	Heat rejection to exhaust	177.68kW [10103Btu/mn]
	Radiated heat to ambient	28.66kW [1630Btu/mn]
	Heat rejection to coolant	N/A
AIR INTAKE	Max. intake restriction	375mm CE [15in. WG]
	Engine air flow	291.67L/s [618cfm]
COOLANT SYSTEM	Radiator & engine capacity	25.8L [6.8gal]
	Max water temperature	110.00°C [230°F]
	Outlet water temperature	93°C [199°F]
	Fan power	12.93 kW
	Fan air flow w/o restriction	5.5m ³ /s [11655cfm]
	Available restriction on air flow	20mm CE [0.8in. WG]
	Type of coolant	Gencool
	Thermostat	82-95 °C
EMISSIONS LEVEL	PM	0.08 gr/bhp/h
	CO	0.37 gr/bhp/h
	HC/Nox	2.39 gr/bhp/h

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ALTERNATOR SPECIFICATIONS

GENERAL DATAS	Manufacturer	LEROY SOMER
	Type	LSA462M5
	Number of phase	3
	Power factor (Cos Phi)	0.8
	Altitude	< 1000 m
	Overspeed	2250 rpm
	Pole : number	4
	Exciter type	SHUNT
	Insulation : class, temperature rise	H / H
	Voltage regulator	R230
	Total harmonics (TGH/THC)	< 2.5%
	Wave form : NEMA = TIF – TGH/THC	< 50
	Wave form : CEI = FHT – TGH/THC	< 2%
	Bearing : number	1
	Coupling	Direct
	Voltage regulation 0 to 100% load	+/- 0.5%
Recovery time (20% Volt dip) ms	500 ms	
SKVA with 90% of nominal sustained voltage (at 0.4PF)	N/A	
OTHER DATAS	Continuous nominal rating @ 40°C	250 kVA
	Standby rating @ 27°C	273 kVA
	Efficiencies @ 4/4 load	92.7 %
	Air flow	0.51m3/s [1080.62cfm]
	Short circuit ratio;50 (Kcc)	0.43
	Direct axis synchro reactance unsaturated (Xd)	314 %
	Quadra axis synchro reactance unsaturated (Xq)	188 %
	Open circuit time constant;50 (T'do)	2042 ms
	Direct axis transient reactance saturated (X'd)	15.3 %
	Short circuit transient time constant (T'd)	100 ms
	Direct axis subtransient reactance saturated (X''d)	9.2 %
	Subtransient time constant (T''d)	10 ms
	Quadra axis subtransient reactance saturated (X''q)	11.4 %
	Zero sequence reactance unsaturated (Xo)	0.5 %
	Negative sequence reactance saturated (X2)	10.3 %
	Armature time constant (Ta)	15 ms
	No load excitation current (io)	1 A
	Full load excitation current (ic)	3.8 A
	Full load excitation voltage (uc)	32 V
	Recovery time (Delta U = 20% transitoire)	500 ms
Motor start (Delta = 20% perm. Or 50% trans.)	496 kVA	
Transient dip (4/4 charge) – PF : 1.8 AR	15.8 %	
No load losses	4.5 kW	
Heat rejection	15.68 kW	



CONTROL PANEL

Standard



NEXYS

Specifications :

Frequency meter, Ammeter, Voltmeter
Alarms and faults Oil pressure, water temperature,
Overcrank, Overspeed (>60 kVA), Min/max alternator,
Low fuel level, Emergency stop
Engine parameters Hours counter, Engine speed,
Battery voltage, Fuel level, Air preheating

Option



TELYS

Specifications :

Frequency meter, Ammeter, Voltmeter
Alarms and faults Oil pressure, water temperature, No
start-up, Overspeed, Min/max alternator, Min/max
battery voltage, Low fuel level, Emergency stop
Engine parameters Hours counter, Oil pressure, Water
temperature, Engine speed, Battery voltage, Fuel level

