

# J200U

Engine JOHN DEERE , 6068HF475  
Alternator LEROY SOMER , LSA462M5

## STANDARD FEATURES

- Mechanical 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: 1480mm [58in]	1790kg [3946 lbs] Net 2130kg [4696 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	70.1	Length: 3508mm [138in] Width: 1200mm [47in] Height: 1830mm [72in]	2390kg [5269lbs] Net 2740kg [6041lbs] Gross	340 L
 M226-DW	80	70.1	Length: 3560mm [140in] Width: 1200mm [47in] Height: 2182mm [86in]	2760kg [6085lbs] Net 3643kg [8031lbs] Gross	868 L





## ENGINE SPECIFICATIONS

STANDARD FEATURES	Manufacturer / Model	JOHN DEERE 6068HF475 , 4-strokes, Turbo , Air/Air DC 6 X
	Cylinder Arrangement	L
	Displacement	6.72L [410.1C.I.]
	Bore and Stroke	106mm [4.2in.] X 127mm [5.0in.]
	Compression ratio	17 : 1
	Rated RPM	1800 Rpm
	Piston Speed	7.62m/s [25.0ft./s]
	Max. stand by Power at rated RPM	229kW [307BHP]
	Frequency regulation, steady state	+/- 0.5%
	BMEP	20.8bar [301psi]
	Governor : type	ELEC
EXHAUST SYSTEM	Exhaust temperature	533°C [991°F]
	Exhaust gas flow	622L/s [1318cfm]
	Max back pressure	750mm CE [30in. WG]
FUEL SYSTEM	110% (Stand By power )	56.0L/h [14.8gal/hr]
	100% (of the Prime Power)	49.9L/h [13.2gal/hr]
	75% (of the Prime Power)	36.9L/h [9.7gal/hr]
	50% (of the Prime Power)	25.3L/h [6.7gal/hr]
	Max. fuel pump flow	89L/h [23.5gal/hr]
OIL SYSTEM	Total oil capacity w/filters	33L [8.7gal]
	Oil Pressure low idle	1bar [14.5psi]
	Oil Pressure rated RPM	5bar [72.5psi]
	Oil consumption 100% load	0.04L/h [0.011gal/hr]
	Oil capacity carter	32L [8.5gal]
THERMAL BALANCE	Heat rejection to exhaust	158kW [8984Btu/mn]
	Radiated heat to ambient	25.5kW [1450Btu/mn]
	Heat rejection to coolant	N/A
AIR INTAKE	Max. intake restriction	625mm CE [25in. WG]
	Engine air flow	233L/s [494cfm]
COOLANT SYSTEM	Radiator & engine capacity	30L [7.9gal]
	Max water temperature	105°C [221°F]
	Outlet water temperature	93°C [199°F]
	Fan power	5 kW
	Fan air flow w/o restriction	6.4m <sup>3</sup> /s [13562cfm]
	Available restriction on air flow	20mm CE [0.8in. WG]
	Type of coolant	Coolelf sx
	Thermostat	82-94 °C
EMISSIONS LEVEL	PM	0.05 gr/bhp/h
	CO	0.75 gr/bhp/h
	HC/Nox	4.55 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

