

J280UC3

Engine JOHN DEERE , 6090HF485-315
 Alternator LEROY SOMER , LSA462L9

STANDARD FEATURES

- Radiator 50°C [122°F]°C max T° air inlet with coolant cap
- Mechanically welded chassis with antivibration suspension
- Control panel compliant with European standard
- Power circuit breaker
- Oil drain tap + diesel pipe
- Tank integrated into the chassis
- Batteries with cables and batterie mounting

Voltages	Power ESP kWe/kVA	Power PRP kWe/kVA	Standby Amps	Dimensions (mm) LxWxH	Weight
480/277	280 / 350	255 / 318	421		
440/254	280 / 350	255 / 318	459		
380/220	280 / 350	255 / 318	532		
240/120	280 / 350	255 / 318	842	2900mm x 1300mm x 1697mm	2290 kg Net
230/115	280 / 350	255 / 318	879		2360 kg Gross
220/127	280 / 350	255 / 318	919		
208/120	280 / 350	255 / 318	972		
600/347	280 / 350	255 / 318	337		


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 N/A °C Air Intlet Temp, N/A m A.S.L. 60 % relative humidity. All engine performance data based on the above mentioned maximum continuous ratings.

	Type	Noise level		Dimensions (m) LxWxH	Weight	Tank (l)
		dB(A)@1m	dB(A)@7m			
	Soundproofed Version					
	M227	82.4	72.4	4004mmx1380mmx2145mm	3240 kg Net 3310 kg Gross	N/A





ENGINE SPECIFICATIONS

STANDARD FEATURES	Manufacturer / Model	JOHN DEERE 6090HF485-315 , 4-cycle, Turbo , Air/Water SC 6 X
	Cylinder Arrangement	L
	Displacement	9L [549.2C.I.]
	Bore and Stroke	118.4mm [4.7in.] X 136mm [5.4in.]
	Compression ratio	16,0 : 1
	Rated RPM	1800 Rpm
	Piston Speed	8.16m/s [26.8ft./s]
	Max. stand by Power at rated RPM	315.00kW [422BHP]
	Frequency regulation, steady state	+/-0.5%
	BMEP	23.33bar [338psi]
Governor : type	Elec	
EXHAUST SYSTEM	Exhaust gas flow	472.00°C [882°F]
	Exhaust temperature	916.67L/s [1943cfm]
	Max back pressure	1000.00mm CE [39in. WG]
FUEL SYSTEM	110% (Stand By power)	76.82L/h [20.3gal/hr]
	100% (of the Prime Power)	67.88L/h [17.9gal/hr]
	75% (of the Prime Power)	51.29L/h [13.6gal/hr]
	50% (of the Prime Power)	35.06L/h [9.3gal/hr]
	Total fuel flow	240.00L/h [63.4gal/hr]
OIL SYSTEM	Total oil capacity w/filters	35L [9.2gal]
	Oil Pressure low idle	1.9bar [27.5psi]
	Oil Pressure rated RPM	2.6bar [37.7psi]
	Oil consumption 100% load	0.17L/h [0.0gal/hr]
	Oil capacity carter	34L [9.0gal]
THERMAL BALANCE	Heat rejection to exhaust	238.17kW [13542Btu/mn]
	Radiated heat to ambient	38.41kW [2184Btu/mn]
	Heat rejection to coolant	N/A
AIR INTAKE	Max. intake restriction	375.00mm CE [15in. WG]
	Engine air flow	916.67L/s [1943cfm]
COOLANT SYSTEM	Radiator & engine capacity	40L [10.6gal]
	Max water temperature	110.00°C [230°F]
	Outlet water temperature	N/A
	Fan power	17.33 kW
	Fan air flow	7m3/s [14834cfm]
	Available restriction on air flow	20mm CE [0.8in. WG]
	Type of coolant	Gencool
	Thermostat	82-94 °C
GAS SYSTEM	HC	N/A
	CO	N/A
	Nox	N/A
	PM	N/A





ALTERNATOR SPECIFICATIONS

<p>GENERAL DATAS</p>	<p>Manufacturer / Type Number of phase Power factor (Cos Phi) Altitude Overspeed Pole : number Exciter type Insulation : class, temperature rise Voltage regulator Sustained short circuit current Total harmonics (TGH/THC) Wave form : NEMA = TIF – TGH/THC Wave form : CEI = FHT – TGH/THC Bearing : number Coupling Voltage regulation 0 to 100% load Recovery time (20% Volt dip) ms SkVA with 90 % of nominal sustained voltage (at 0.4 PF)</p>	<p>LEROY SOMER LSA462L9 3 0.8 < 1000 m 2250 rpm 4 SHUNT H / H R230 3.8 AC < 4% < 50 < 2% 1 Direct +/- 1% < 500 ms N/A</p>
<p>OTHER DATAS</p>	<p>Continuous nominal rating @ 40°C Standby rating @ 27°C Efficiencies @ 4/4 load Air flow Short circuit ratio;50 (Kcc) Direct axis synchro reactance unsaturated (Xd) Quadra axis synchro reactance unsaturated (Xq) Open circuit time constant;50 (T'do) Direct axis transient reactance saturated (X'd) Short circuit transient time constant (T'd) Direct axis subtransient reactance saturated (X''d) Subtransient time constant (T''d) Quadra axis subtransient reactance saturated (X''q) Zero sequence reactance unsaturated (Xo) Negative sequence reactance saturated (X2) Armature time constant (Ta) No load excitation current (io) Full load excitation current (ic) Full load excitation voltage (uc) Recovery time (Delta U = 20% transitoire) Motor start (Delta = 20% perm. Or 50% trans.) Transient dip (4/4 charge) - PF : 1.8 AR No load losses Heat rejection</p>	<p>343 kVA 375 kVA 93.2 % 0.51m3/s [1080.62cfm] 0.49 290 % 174 % 2180 ms 13.3 % 105 ms 8 % 10 ms 9.9 % 0.4 % 8.9 % 16 ms 1.1 A N/A 34 V < 500 ms 840 kVA 14.5 % 6.6 kW 19 kW</p>



CONTROL PANEL

NEXYS

Standard Panel

**Specifications:**

Frequency meter, Ammeter, Voltmeter

Alarms and faults:

Oil pressure, water temperature, No start-up, Overspeed, Min/max alternator, Min/max battery voltage, Emergency stop

Engine parameters:

Hours counter, Oil pressure, Water temperature, Engine speed, Battery voltage, Fuel level

TELYS

Option Panel

**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

