

J300K

Engine JOHN DEERE , 6081HF001
Alternator LEROY SOMER , LSA462L9

STANDARD FEATURES

- 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



Voltage	Power ESP kWe/kVA	Power PRP kWe/kVA	Standby Amps	Dimensions	Weight
415/240	242 / 303	220 / 275	422		
400/230	242 / 303	220 / 275	437	Leng : 2900mm [114in]	2235kg [4927lbs] Net
380/220	242 / 303	220 / 275	460	Widt : 1300mm [51in]	2635kg [5809lbs] Gross
240 TRI	242 / 303	220 / 275	729	Heig : 1697mm [67in]	
230 TRI	242 / 303	220 / 275	761		
220 TRI	242 / 303	220 / 275	795		
200/115	242 / 303	220 / 275	875		



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.

TERM OF USE

Standard reference conditions ESP/PRP 25 C°/25 C° Air Intlet Temp, 1000 m/1000 m m A.S.L. 60 % relative humidity.

Model	dB(A)@1m	dB(A)@7m	Dimensions	Weight	Tank
 M227-DW	79.5	69.5	Leng : 4056mm [160in] Widt : 1380mm [54in] Heig : 2340mm [92in]	3692kg [8139lbs] 4662kg [10278lbs]	950 L
 M227	79.5	69.5	Leng : 4004mm [158in] Widt : 1380mm [54in] Heig : 2145mm [84in]	3215kg [7088lbs] 3625kg [7992lbs]	390 L



ENGINE SPECIFICATIONS

DATA GENERAL DATA	Motor 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 : 1
	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
EXHAUST SYSTEM	Exhaust gas temperature (°F)	640
	Exhaust gas flow (L/s)	740
	Max. exhaust back pressure (mm CE)	750
FUEL SYSTEM	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/hr)	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
THERMAL BALANCE	Heat rejection to exhaust (kW)	213
	Radiated heat to ambient (kW)	34
	Heat rejection to coolant (kW)	103+55
AIR INTAKE	AIR INTAKE_entree_max%	625
	Intake air flow (L/s)	303
COOLANT 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 CE)	20
	Type of coolant	GENCOOL
	Thermostat (°C)	82-94
EMISSIONS	Emissions PM (g/kW.h)	N/A
	Emission CO (g/kW.h)	N/A
	Emissions HCNOx (g/kWh)	N/A
	Emission HC (g/kW.h)	N/A

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ALTERNATOR SPECIFICATIONS

DATA GENERAL DATA	Alternator brand	LEROY SOMER
	Alternator	LSA462L9
	Number of phase	3
	Power factor (Cos Phi)	0.8
	Altitude (m)	<1000
	Overspeed (rpm)	2250
	Number of pole	4
	Excitation system	SHUNT
	Insulation class / Temperature class	H / H
	Regulation	R230
	Total harmonics TGH/THC	<4
	Wave form : NEMA=TIF-TGH/THC	<50
	Wave form : CEI=FHT-TGH/THC	<2
	Number of bearing	1
	Coupling	DIRECT
	Voltage regulation 0 à 100%	0.5
	Recovery time (Delta U = 20% transitoire) (ms)	500
OTHER DATA	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) (%)	295
	Quadra axis synchro reactance unsaturated (Xq) (%)	177
	Open circuit time constant (T'do) (ms)	2170
	Direct axis transient reactance saturated (X'd) (%)	13.5
	Short circuit transient time constant (T'd) (ms)	105
	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)	16
	No load excitation current (io) (ms)	1.2
	Full load excitation current (ic) (A)	4
	Full load excitation voltage (uc) (A)	35
	Recovery time (Delta U = 20% transitoire) (ms)	500
	Motor start (Delta U = 20% perm. or 50% trans.) (ms)	680
	Transient dip (4/4 charge) - PF : 0,8 AR (%)	14.6
No load losses (kW)	4.5	
Heat rejection (kW)	16.8	

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CONTROL PANEL

Standard

NEXYS



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



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