

J400K

Engine JOHN DEERE , 6125HF070-387
 Alternator LEROY SOMER , LSA472VS2

STANDARD FEATURES

- Electronic 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
- 24 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	322 / 402	292 / 365	559		
400/230	322 / 402	292 / 365	580	Leng : 3160mm [124in]	3090kg [6812lbs] Net
380/220	322 / 402	292 / 365	611	Widt : 1340mm [53in]	3570kg [7871lbs] Gross
240 TRI	322 / 402	292 / 365	967	Heig : 1790mm [70in]	
230 TRI	322 / 402	292 / 365	1009		
220 TRI	322 / 402	292 / 365	1055		
200/115	322 / 402	292 / 365	1161		



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
	M228-DW	76.2	66.5	Leng : 4527mm [178in] Widt : 1410mm [56in] Heig : 2700mm [106in]	4821kg [10628lbs] 6089kg [13424lbs]	1368 L
	M228	76.2	66.5	Leng : 4475mm [176in] Widt : 1410mm [56in] Heig : 2430mm [96in]	4220kg [9304lbs] 4690kg [10340lbs]	470 L



ENGINE SPECIFICATIONS

DATA GENERAL DATA	Motor model	JOHN DEERE 6125HF070-387 , 4-temps, TURBO , AIR/AIR 6 X
	Cylinder arrangement	L
	Displacement (C.I.)	12.54
	Bore (mm) X Stroke (mm)	127 X 165
	Compression ratio	17 : 1
	Speed (RPM)	1500
	Pistons speed (m/s)	8.25
	Maximum stand-by power at rated RPM (kW)	379
	Frequency regulation (%)	0.5
	BMEP (bar)	21.82
	Governor type	ELEC
EXHAUST SYSTEM	Exhaust gas temperature (°F)	468
	Exhaust gas flow (L/s)	1080
	Max. exhaust back pressure (mm CE)	750
FUEL SYSTEM	Consumption @ 110% load (L/h)	87.45
	Consumption @ 100% load (L/h)	81.01
	Consumption @ 75% load (L/h)	59.44
	Consumption @ 50% load (L/h)	40.44
	Maximum fuel pump flow (L/hr)	158
OIL	Oil capacity (L)	40
	Min. oil pressure (bar)	1.38
	Max. oil pressure (bar)	2.75
	Oil consumption 100% load (L/h)	0.12
	Carter oil capacity (L)	42
THERMAL BALANCE	Heat rejection to exhaust (kW)	292
	Radiated heat to ambient (kW)	47
	Heat rejection to coolant (kW)	140+77kW
AIR INTAKE	AIR INTAKE_entree_max%	625
	Intake air flow (L/s)	446
COOLANT SYSTEM	Radiator & Engine capacity (L)	43.8
	Max water temperature (°C)	105
	Outlet water temperature (°C)	94
	Fan power (kW)	8
	Fan air flow w/o restriction (m3/s)	6
	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	LSA472VS2
	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)	365
	Standby Rating 27°C (kVA)	420
	Efficiencies 4/4 load (%)	93.3
	Air flow (m3/s)	0.9
	Short circuit ratio (Kcc)	0.38
	Direct axis synchro reactance unsaturated (Xd) (%)	336
	Quadra axis synchro reactance unsaturated (Xq) (%)	201
	Open circuit time constant (T'do) (ms)	1738
	Direct axis transient reactance saturated (X'd) (%)	19.3
	Short circuit transient time constant (T'd) (ms)	100
	Direct axis subtransient reactance saturated (X''d) (%)	15.4
	Subtransient time constant (T''d) (ms)	10
	Quadra axis subtransient reactance saturated (X''q) (%)	21
	Zero sequence reactance unsaturated (Xo) (%)	0.9
	Negative sequence reactance saturated (X2) (%)	18.2
	Armature time constant (Ta) (ms)	15
	No load excitation current (io) (ms)	1
	Full load excitation current (ic) (A)	3.8
	Full load excitation voltage (uc) (A)	39
	Recovery time (Delta U = 20% transitoire) (ms)	500
	Motor start (Delta U = 20% perm. or 50% trans.) (ms)	722
	Transient dip (4/4 charge) - PF : 0,8 AR (%)	16.8
	No load losses (kW)	5.44
Heat rejection (kW)	20.78	

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CONTROL PANEL

Standard



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