



J66K

Engine JOHN DEERE , 4045TF120
 Alternator LEROY SOMER , LSA432M45

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	53 / 66	48 / 60	92		
400/230	53 / 66	48 / 60	95	Leng : 1870mm [74in]	1000kg [2205lbs] Net
380/220	53 / 66	48 / 60	100	Widt : 994mm [39in]	1210kg [2668lbs] Gross
240 TRI	53 / 66	48 / 60	159	Heig : 1360mm [54in]	
230 TRI	53 / 66	48 / 60	166		
220 TRI	53 / 66	48 / 60	173		
220/127	53 / 66	48 / 60	173		
200/115	53 / 66	48 / 60	191		



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
 M128-DW	75.6	66	Leng : 2344mm [92in] Widt : 1060mm [42in] Heig : 1900mm [75in]	1657kg [3653lbs] 2047kg [4513lbs]	390 L
 M128	75.6	66	Leng : 2300mm [91in] Widt : 1060mm [42in] Heig : 1680mm [66in]	1410kg [3109lbs] 1610kg [3549lbs]	180 L

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ENGINE SPECIFICATIONS

DATA GENERAL DATA	Motor model	JOHN DEERE 4045TF120 , 4-temps, TURBO , N/A 4 X
	Cylinder arrangement	L
	Displacement (C.I.)	4.48
	Bore (mm) X Stroke (mm)	106 X 127
	Compression ratio	17 : 1
	Speed (RPM)	1500
	Pistons speed (m/s)	6.35
	Maximum stand-by power at rated RPM (kW)	68
	Frequency regulation (%)	2.5
	BMEP (bar)	10.89
	Governor type	MECA
EXHAUST SYSTEM	Exhaust gas temperature (°F)	545
	Exhaust gas flow (L/s)	176
	Max. exhaust back pressure (mm CE)	750
FUEL SYSTEM	Consumption @ 110% load (L/h)	17.5
	Consumption @ 100% load (L/h)	16
	Consumption @ 75% load (L/h)	12
	Consumption @ 50% load (L/h)	8.5
	Maximum fuel pump flow (L/hr)	108
OIL	Oil capacity (L)	13.5
	Min. oil pressure (bar)	1
	Max. oil pressure (bar)	5
	Oil consumption 100% load (L/h)	0.016
	Carter oil capacity (L)	12.5
THERMAL BALANCE	Heat rejection to exhaust (kW)	54
	Radiated heat to ambient (kW)	8
	Heat rejection to coolant (kW)	35
AIR INTAKE	AIR INTAKE_entree_max%	625
	Intake air flow (L/s)	66
COOLANT SYSTEM	Radiator & Engine capacity (L)	23.6
	Max water temperature (°C)	105
	Outlet water temperature (°C)	93
	Fan power (kW)	2
	Fan air flow w/o restriction (m3/s)	2.53
	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	LERROY SOMER
	Alternator	LSA432M45
	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	<2
	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)	60
	Standby Rating 27°C (kVA)	66
	Efficiencies 4/4 load (%)	89
	Air flow (m3/s)	0.27
	Short circuit ratio (Kcc)	0.39
	Direct axis synchro reactance unsaturated (Xd) (%)	304
	Quadra axis synchro reactance unsaturated (Xq) (%)	182
	Open circuit time constant (T'do) (ms)	1270
	Direct axis transient reactance saturated (X'd) (%)	11.9
	Short circuit transient time constant (T'd) (ms)	50
	Direct axis subtransient reactance saturated (X''d) (%)	5.9
	Subtransient time constant (T''d) (ms)	5
	Quadra axis subtransient reactance saturated (X''q) (%)	7.4
	Zero sequence reactance unsaturated (Xo) (%)	0.5
	Negative sequence reactance saturated (X2) (%)	6.7
	Armature time constant (Ta) (ms)	8
	No load excitation current (io) (ms)	0.4
	Full load excitation current (ic) (A)	1.6
	Full load excitation voltage (uc) (A)	30
	Recovery time (Delta U = 20% transitoire) (ms)	500
Motor start (Delta U = 20% perm. or 50% trans.) (ms)	156	
Transient dip (4/4 charge) - PF : 0,8 AR (%)	15.5	
No load losses (kW)	1.12	
Heat rejection (kW)	5.89	

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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