





J80UC3

Engine JOHN DEERE, 4045HFS82, U.S EPA Tier 3 Alternator LEROY SOMER, LSA432L8

80KW GENERATOR

80 KW / 100 KVA DIESEL GENERATOR SET, FULLY PACKAGED:

- JOHN DEERE Heavy duty diesel engine, 4 stroke, 1800rpm, Turbo, EPA
- LEROY SOMER brushless alternator. IP23 protection, Insulation class H
- MERLIN GERIN, Main line circuit breaker, wired, maximum output rated
- EPA Tier 3 compliant engine per U.S. Environmental Protection Agency
- Digital auto-start control panel. CE and UL compliant
- Incorporated metallic fuel tank for day use
- Auto Start control feature included for interoperation with ATS/AMF
- 12V charging alternator and 12V DC electric starter motor
- 12V charged DC starting battery with electrolyte and cables
- Dry type air filter, fuel filter and oil filter elements installed
- Mechanically welded chassis with vibration isolators
- Each unit prototype and individually factory load bank tested
- The generator accepts 100% rated load in one step as per NFPA110 and meets ISO8528-5 class G-3 for transient response
- Compliant with ISO3046, ISO8528, BS4999, BS5514, BS5000PT99, AS1359, IEC34, UTE5100, VDE0530 and ISO9001:2000



- Steel or Aluminum weather proof, sound attenuated enclosures
- UL142 listed, double wall fuel tanks from 50 to 10,000 Gal
- UL1008 listed, automatic transfer switches from 50 to 3000 Amp
- D.O.T. compliant heavy duty road trailers from 3000 to 30000 Lbs
- Automatic battery chargers, Engine preheaters, Remote annunciators and many more



Voltage	Power ESP kWe/kVA	Power PRP kWe/kVA	Standby Amps	Dimensions -Open	Weigh t- Open
480/277	80 / 100	73 / 91	120		
440/254	78 / 98	71 / 89	129	Leng: 1950mm [77in]	1170kg [2579lbs] Net
380/220	80 / 100	73 / 91	152	Widt: 1084mm [43in]	1370kg [3020lbs] Gross
240 TRI	75 / 94	68 / 85	226	Heig: 1350mm [53in]	
230 TRI	70 / 88	64 / 80	221		
220/127	78 / 98	71 / 89	257		
208/120	74 / 93	67 / 84	258		
600/347	80 / 100	73 / 91	96		

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.

WEATHER / SOUND PROOF ENCLOSURES

	Model	dB(A)@1m	dB(A)@7m	Dimensions - Enclosed	Weight - Enclosed	Tank
- 6	M129-DW	78	68	Leng : 2602mm [102in] Widt : 1150mm [45in] Heig : 1900mm [75in]	1989kg [4385lbs] 2500kg [5512lbs]	505 L 133 Gal
- 6	M129	78	68	Leng : 2554mm [101in] Widt : 1150mm [45in] Heig : 1680mm [66in]	1590kg [3505lbs] 1790kg [3946lbs]	190 L 50 Gal

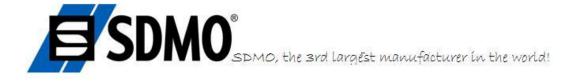
80KW GENERATOR

GENERAL POWER LIMITED, INC

Phone (305) 471 9566, Phone (888) POWER 58, Fax (305) 471 9568, Fax (305) 675 8033 www.dieselgeneratorsmiami.com www.genpowerusa.com info@genpowerusa.com MIAMI, FLORIDA | TUSTIN, CALIFORNIA | PANAMA | FRANCE | COLOMBIA | U.K.









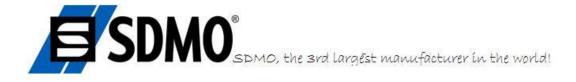
ENGINE SPECIFICATIONS

	Engine model	JOHN DEERE 4045HFS82 , 4-temps, TURBO , AIR/AIR 4 X		
	Cylinder arrangement	L		
	Displacement (C.I.)	4.48		
	Bore (mm) X Stroke (mm)	106 X 127		
	Compression ratio	19 : 1		
DATA	Speed (RPM)	1800		
	Pistons speed (m/s)	7.62		
GENERAL DATA	Maximum stand-by power at rated RPM (kW)	94		
	Frequency regulation (%)	0.5		
	BMEP (bar)	12.8		
	Governor type	ELECTRONIC		
	Exhaust gas temperature (°C)	576		
EXHAUST SYSTEM	Exhaust gas flow (L/s)	306.67		
	Max. exhaust back pressure (mm CE)	750		
	Fuel consumption 110% load (gal/hr)	6.62		
	Fuel consumption 100% load (gal/hr)	6.04		
FUEL SYSTEM	Fuel consumption 75% (gal/hr)	5.37		
	Fuel consumption 50% (gal/hr)	3.96		
	Maximum fuel pump flow (gal/hr)	15.66		
	Oil capacity (L)	13		
	Min. oil pressure (bar)	1.05		
OIL	Max. oil pressure (bar)	3		
	Oil consumption 100% load (L/h)	0.06		
	Carter oil capacity (L)	12		
THERMAL BALANCE	Heat rejection to exhaust (kW)	89.22		
	Radiated heat to ambiant (kW)	11.46		
	Haet rejection to coolant (kW)	52.5+11.8		
AIR INTAKE	AIR INTAKE_entree_max%	375		
	Intake air flow (L/s)	110.67		
	Radiator & Engine capacity (L)	20.2		
	Max water temperature (°C)	110		
	Outlet water temperature (°C)	93		
	Fan power (kW)	5.17		
COOLANT SYSTEM	Fan air flow w/o restriction (m3/s)	4		
	Available restriction on air flow (mm CE)	20		
	Type of coolant	GENCOOL		
	Thermostat (°C)	82-95		
	Emissions PM (g/kWh)	0.25		
EMISSIONS	Emission CO (g/kW.h)	1.47		
	Emissions HCNOx (g/kWh)	3.43		
	Emission HC (g/kW.h)	0.14		











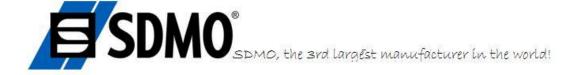
ALTERNATOR SPECIFICATIONS

Alternator LSA432L8		Alternator brand	LEROY SOMER
Number of phase 3 Power factor (Cos Phi) 0.8			
Power factor (Cos Phi)		Number of phase	
Altitude (m)			
DATA			
Number of pole Excitation system SHUNT		• • • • • • • • • • • • • • • • • • • •	
DATA		, ,,,,	
Insulation class / Temperature class Regulation R230	DATA	•	
Regulation R230		•	
Total harmonics TĞH/THC	GENERAL DATA	•	
Wave form : NEMA=TIF-TGH/THC C50			
Wave form : CEI=FHT-TGH/THC C2			
Number of bearing			
Coupling			
Recovery time (Delta U = 20% transitoire) (ms) 500			DIRECT
Continuous Nominal Rating 40°C (kVA) 95		Voltage regulation 0 to 100%	0.5%
Standby Rating 27°C (kVA)		Recovery time (Delta U = 20% transitoire) (ms)	500
Efficiencies 4/4 load (%) 91.1 Air flow (cfm) 0.32 Short circuit ratio (Kcc) 0.4 Direct axis synchro reactance unsaturated (Xd) (%) 293 Quadra axis synchro reactance unsaturated (Xq) (%) 176 Open circuit time constant (T'do) (ms) 1431 Direct axis transient reactance saturated (X'd) (%) 10 Short circuit transient time constant (T'd) (ms) 50 OTHER Direct axis subtransient reactance saturated (X'd) (%) 5 Subtransient time constant (T'd) (ms) 5 DATA Quadra axis subtransient reactance saturated (X"q) (%) 6.3 Zero sequence reactance unsaturated (Xo) (%) 0.8 Negative sequence reactance saturated (X2) (%) 5.8 Armature time constant (Ta) (ms) 8 No load excitation current (io) (ms) 0.4 Full load excitation voltage (uc) (A) 29 Recovery time (Delta U = 20% perm. or 50% trans.) (ms) 269 Transient dip (4/4 charge) - PF : 0,8 AR (%) 14 No load losses (kW) 2.06		Continuous Nominal Rating 40°C (kVA)	95
Air flow (cfm) 0.32		Standby Rating 27°C (kVA)	107
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CONTROL PANEL

Standard



NEXYS

NEXYS

TELYS

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, Alr preheating

Option TELYS2



Specifications: Frequency meter, Ammeter, Voltmeter Alarms and faults: Oil pressure, water temperature, No startup. 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 Remote monitoring and control

ACCESSORIES AND OPTIONS

50 to 3000 AMP Automatic Transfer Switches, UL1008 listed



With a Series 300 transfer switch, you get a product backed by ASCO Power Technologies, the industry leader

- •True double-throw operation: single solenoid design is inherently interlocked & prevents contacts from stopping between sources
- Easy-to-read flush-mounted control and display panel provides LED indicators for switch position and source availability
- •Standard engine exerciser for weekly automatic testing with or without load
- •UL 1008 listed for Transfer Equipment and CSA C22.2 listed
- ●NFPA 110 for Emergency & Standby Power & the National Electrical (NEC) Articles 700, 701 and 702

Option



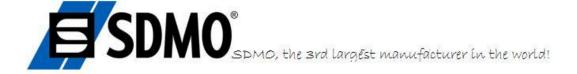
50 to 10000 GAL fuel tanks, UL142 listed

- •UL listed. Secondary containment tank meeting UL 142 tank requirements
- •NFPA compliant. Designed to comply with the installation standards of NFPA 30 and NFPA 37
- •Emergency pressure relief vents. Meets UL requirements; ensures adequate venting of inner and outer tank under extreme pressure and/or emergency conditions
- •Electrical stub-up area with removable end channel
- •Normal vent Inner tank emergency vent sized to UL 142 specs
- •Direct reading mechanical fuel gauge Fuel in basin switch
- Satin black paint finish













M129

Weather / Soundproof Enclosure

STANDARD FEATURES

- They protect stationary and mobile generator against the bad weather, against the theft and enables the reduction of the noise level.
- Enclosures are of 12 gauge steel. Steel sheet are electro zinc coated before painting (inside and outside) with a polyester powder rust inhibiting coat.
- High corrosion resistance: stainless covered with zinc and made in dichromate, bolts and rivets, anodized aluminium alloy hinges flexible seals between body sections.
- Soundfoam between 20 and 50 mm (1 to 2 in) acoustical sound treatment
- Lifting eye(s) on top of the enclosure fixed to the skid
- Large doors allow easy access to the generator set for service and monitoring purposes
- Window in "securit" glass mounted on enclosure door for control viewing .
- A critical silencer is mounted inside the enclosure
- Emergency stop button is accessible from outside enclosure.



Model	dB(A)@1m	Sound level dB(A)@7m			Weight (kgs)	Tank (I)
J80UC3	78	68	N/A	2554 x 1150 x 1680	1590	190





