

## 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



AVAILABLE ACCESSORIES AND OPTIONS:

- 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	Weight - 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
 M129-DW	78	68	Leng : 2602mm [102in] Widt : 1150mm [45in] Heig : 1900mm [75in]	1989kg [4385lbs] 2500kg [5512lbs]	505 L 133 Gal
 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](http://www.dieselgeneratorsmiami.com) [www.genpowerusa.com](http://www.genpowerusa.com) [info@genpowerusa.com](mailto:info@genpowerusa.com)  
 MIAMI, FLORIDA | TUSTIN, CALIFORNIA | PANAMA | FRANCE | COLOMBIA | U.K.



## ENGINE SPECIFICATIONS

DATA  GENERAL DATA	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
	Speed (RPM)	1800
	Pistons speed (m/s)	7.62
	Maximum stand-by power at rated RPM (kW)	94
	Frequency regulation (%)	0.5
	BMEP (bar)	12.8
	Governor type	ELECTRONIC
EXHAUST SYSTEM	Exhaust gas temperature (°C)	576
	Exhaust gas flow (L/s)	306.67
	Max. exhaust back pressure (mm CE)	750
FUEL SYSTEM	Fuel consumption 110% load (gal/hr)	6.62
	Fuel consumption 100% load (gal/hr)	6.04
	Fuel consumption 75% (gal/hr)	5.37
	Fuel consumption 50% (gal/hr)	3.96
	Maximum fuel pump flow (gal/hr)	15.66
OIL	Oil capacity (L)	13
	Min. oil pressure (bar)	1.05
	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 ambient (kW)	11.46
	Heat rejection to coolant (kW)	52.5+11.8
AIR INTAKE	AIR INTAKE_entree_max%	375
	Intake air flow (L/s)	110.67
COOLANT SYSTEM	Radiator & Engine capacity (L)	20.2
	Max water temperature (°C)	110
	Outlet water temperature (°C)	93
	Fan power (kW)	5.17
	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	Emissions PM (g/kWh)	0.25
	Emission CO (g/kW.h)	1.47
	Emissions HCNOx (g/kWh)	3.43
	Emission HC (g/kW.h)	0.14

### GENERAL POWER LIMITED, INC

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



## ALTERNATOR SPECIFICATIONS

DATA  GENERAL DATA	Alternator brand	LEROY SOMER
	Alternator	LSA432L8
	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 to 100%	0.5%
	Recovery time (Delta U = 20% transitoire) (ms)	500
OTHER  DATA	Continuous Nominal Rating 40°C (kVA)	95
	Standby Rating 27°C (kVA)	107
	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
	Direct axis subtransient reactance saturated (X''d) (%)	5
	Subtransient time constant (T''d) (ms)	5
	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 current (ic) (A)	1.6
	Full load excitation voltage (uc) (A)	29
	Recovery time (Delta U = 20% transitoire) (ms)	500
	Motor start (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
	Heat rejection (kW)	7.57

### GENERAL POWER LIMITED, INC

Phone (305) 471 9566, Phone (888) POWER 58, Fax (305) 471 9568, Fax (305) 675 8033  
[www.diesलगeneratorsmiami.com](http://www.diesलगeneratorsmiami.com)    [www.genpowerusa.com](http://www.genpowerusa.com)    [info@genpowerusa.com](mailto:info@genpowerusa.com)  
 MIAMI, FLORIDA | TUSTIN, CALIFORNIA | PANAMA | FRANCE | COLOMBIA | U.K.



## 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



### TELYS2

#### 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  
Remote monitoring and control

## ACCESSORIES AND OPTIONS

### Option

### 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

### GENERAL POWER LIMITED, INC

Phone (305) 471 9566, Phone (888) POWER 58, Fax (305) 471 9568, Fax (305) 675 8033  
[www.dieselsegeneratorsmiami.com](http://www.dieselsegeneratorsmiami.com)    [www.genpowerusa.com](http://www.genpowerusa.com)    [info@genpowerusa.com](mailto:info@genpowerusa.com)  
 MIAMI, FLORIDA | TUSTIN, CALIFORNIA | PANAMA | FRANCE | COLOMBIA | U.K.



# 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	LWA	Dimensions (mm)	Weight (kgs)	Tank (l)
J80UC3	78	68	N/A	2554 x 1150 x 1680	1590	190

#### GENERAL POWER LIMITED, INC

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

