

J160UC3

**Engine JOHN DEERE , 6068HFS83, U.S EPA Tier 3
Alternator LEROY SOMER , LSA442L12**

160KW GENERATOR

160 KW / 200 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	160 / 200	145 / 182	241		
440/254	160 / 200	145 / 182	262	Leng : 2370mm [93in]	1700kg [3748lbs] Net
240/120	160 / 200	145 / 182	481	Widt : 1114mm [44in]	2060kg [4542lbs] Gross
230/115	155 / 194	141 / 176	487	Heig : 1480mm [58in]	
220/127	160 / 200	145 / 182	525		
208/120	160 / 200	145 / 182	555		
600/347	160 / 200	145 / 182	192		

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
 M226-DW	81.5	71.5	Leng : 3560mm [140in] Widt : 1200mm [47in] Heig : 2182mm [86in]	2640kg [5820lbs] 3530kg [7782lbs] 868 L 229 Gal
 M226	81.5	71.5	Leng : 3508mm [138in] Widt : 1200mm [47in] Heig : 1830mm [72in]	2280kg [5027lbs] 2630kg [5798lbs] 340 L 90 Gal

160KW 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

DATA GENERAL DATA	Engine model	JOHN DEERE 6068HFS83 , 4-temps, TURBO , AIR/AIR 6 X
	Cylinder arrangement	L
	Displacement (C.I.)	6.72
	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)	177
	Frequency regulation (%)	0.5
	BMEP (bar)	16
	Governor type	ELECTRONIC
EXHAUST SYSTEM	Exhaust gas temperature (°C)	505
	Exhaust gas flow (L/s)	566.67
	Max. exhaust back pressure (mm CE)	750
FUEL SYSTEM	Fuel consumption 110% load (gal/hr)	11.72
	Fuel consumption 100% load (gal/hr)	10.81
	Fuel consumption 75% (gal/hr)	9.17
	Fuel consumption 50% (gal/hr)	6.68
	Maximum fuel pump flow (gal/hr)	28.35
OIL	Oil capacity (L)	33
	Min. oil pressure (bar)	1.05
	Max. oil pressure (bar)	3
	Oil consumption 100% load (L/h)	0.11
	Carter oil capacity (L)	32
THERMAL BALANCE	Heat rejection to exhaust (kW)	133.83
	Radiated heat to ambient (kW)	21.59
	Heat rejection to coolant (kW)	93+32
AIR INTAKE	AIR INTAKE_entree_max%	375
	Intake air flow (L/s)	226.67
COOLANT SYSTEM	Radiator & Engine capacity (L)	25.8
	Max water temperature (°C)	110
	Outlet water temperature (°C)	93
	Fan power (kW)	9.74
	Fan air flow w/o restriction (m3/s)	5.5
	Available restriction on air flow (mm CE)	20
	Type of coolant	GENCOOL
	Thermostat (°C)	82-95
EMISSIONS	Emissions PM (g/kWh)	0.18
	Emission CO (g/kW.h)	1.31
	Emissions HCNOx (g/kWh)	3.56
	Emission HC (g/kW.h)	0.18

GENERAL POWER LIMITED, INC

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



ALTERNATOR SPECIFICATIONS

DATA GENERAL DATA	Alternator brand	LEROY SOMER
	Alternator	LSA442L12
	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 to 100%	0.5%	
Recovery time (Delta U = 20% transitoire) (ms)	500	
OTHER DATA	Continuous Nominal Rating 40°C (kVA)	190
	Standby Rating 27°C (kVA)	225
	Efficiencies 4/4 load (%)	92.8
	Air flow (cfm)	0.44
	Short circuit ratio (Kcc)	0.41
	Direct axis synchro reactance unsaturated (Xd) (%)	319
	Quadra axis synchro reactance unsaturated (Xq) (%)	191
	Open circuit time constant (T'do) (ms)	2966
	Direct axis transient reactance saturated (X'd) (%)	11
	Short circuit transient time constant (T'd) (ms)	100
	Direct axis subtransient reactance saturated (X''d) (%)	6
	Subtransient time constant (T''d) (ms)	10
	Quadra axis subtransient reactance saturated (X''q) (%)	7.5
	Zero sequence reactance unsaturated (Xo) (%)	0.3
	Negative sequence reactance saturated (X2) (%)	7
	Armature time constant (Ta) (ms)	15
	No load excitation current (io) (ms)	0.5
	Full load excitation current (ic) (A)	1.9
	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)	580
	Transient dip (4/4 charge) - PF : 0,8 AR (%)	14.4
	No load losses (kW)	4.17
Heat rejection (kW)	12.74	

GENERAL POWER LIMITED, INC

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



CONTROL PANELS

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 2

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.dieselgeneratorsmiami.com www.genpowerusa.com info@genpowerusa.com
 MIAMI, FLORIDA | TUSTIN, CALIFORNIA | PANAMA | FRANCE | COLOMBIA | U.K.



M226

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)
J160UC3	81.5	71.5	N/A	3508 x 1200 x 1830	2280	340

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.

