





J280UC3

Engine JOHN DEERE, 6090HF485-315, U.S EPA Tier 3
Alternator LEROY SOMER, LSA462L9

280KW GENERATOR

280 KW / 350 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



Power ESP kWe/kVA	Power PRP kWe/kVA	Standby Amps	Dimensions – Open	Weight - Open
280 / 350	255 / 318	421		
280 / 350	255 / 318	459	Leng : 2900mm [114in]	2340kg [5159lbs] Net
280 / 350	255 / 318	532	Widt: 1300mm [51in]	2750kg [6063lbs] Gross
280 / 350	255 / 318	842	Heig: 1720mm [68in]	
280 / 350	255 / 318	879		
280 / 350	255 / 318	919		
280 / 350	255 / 318	972		
280 / 350	255 / 318	337		
	kWe/kVA 280 / 350 280 / 350 280 / 350 280 / 350 280 / 350 280 / 350 280 / 350	kWe/kVA kWe/kVA 280 / 350 255 / 318 280 / 350 255 / 318 280 / 350 255 / 318 280 / 350 255 / 318 280 / 350 255 / 318 280 / 350 255 / 318 280 / 350 255 / 318 280 / 350 255 / 318	kWe/kVA kWe/kVA Standby Amps 280 / 350 255 / 318 421 280 / 350 255 / 318 459 280 / 350 255 / 318 532 280 / 350 255 / 318 842 280 / 350 255 / 318 879 280 / 350 255 / 318 919 280 / 350 255 / 318 972	kWe/kVA kWe/kVA Standby Amps Dimensions – Open 280 / 350 255 / 318 421 280 / 350 255 / 318 459 Leng: 2900mm [114in] 280 / 350 255 / 318 532 Widt: 1300mm [51in] 280 / 350 255 / 318 842 Heig: 1720mm [68in] 280 / 350 255 / 318 879 280 / 350 255 / 318 919 280 / 350 255 / 318 972

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

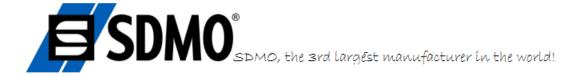
	Model	dB(A)@1m	dB(A)@7m	Dimensions – Enclosed	Weight - Enclosed	Tank
- 8	M227-DW	83.5	73.5	Leng : 4056mm [160in] Widt : 1380mm [54in] Heig : 2340mm [92in]	3755kg [8278lbs] 4725kg [10417lbs]	950 L 251 Gal
9.	M227	83.5	73.5	Leng : 4004mm [158in] Widt : 1380mm [54in] Heig : 2145mm [84in]	3290kg [7253lbs] 3700kg [8157lbs]	390 L 103 Gal

280KW 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







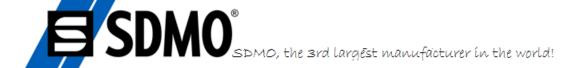
ENGINE SPECIFICATIONS

		JOHN DEERE 6090HF485-315 , 4-temps, TURBO ,		
	Engine model	AIR/AIR 6 X		
Cylinder arrangeme		L		
	Displacement (C.I.)	8.98		
Bore (mm) X Stroke (mm)		118.4 X 136		
	Compression ratio	16 : 1		
DATA	Speed (RPM)	1800		
	Pistons speed (m/s)	8.16		
GENERAL DATA	Maximum stand-by power at rated RPM (kW)	315		
	Frequency regulation (%)	0.5		
	BMEP (bar)	21.3		
	Governor type	ELECTRONIC		
	Exhaust gas temperature (°C)	472		
EXHAUST SYSTEM	Exhaust gas flow (L/s)	916.67		
	Max. exhaust back pressure (mm CE)	1000		
	Fuel consumption 110% load (gal/hr)	20.2		
	Fuel consumption 100% load (gal/hr)	17.9		
FUEL SYSTEM	Fuel consumption 75% (gal/hr)	13.5		
	Fuel consumption 50% (gal/hr)	9.2		
	Maximum fuel pump flow (gal/hr)	63.4		
	Oil capacity (L)	35		
	Min. oil pressure (bar)	1.9		
OIL	Max. oil pressure (bar)	2.6		
	Oil consumption 100% load (L/h)	0.17		
	Carter oil capacity (L)	34		
THERMAL BALANCE	Heat rejection to exhaust (kW)	238.17		
	Radiated heat to ambiant (kW)	38.41		
	Haet rejection to coolant (kW)	123+75		
AIR INTAKE	AIR INTAKE_entree_max%	375		
	Intake air flow (L/s)	378.33		
	Radiator & Engine capacity (L)	40		
	Max water temperature (°C)	110		
	Outlet water temperature (°C)	93		
	Fan power (kW)	17.33		
COOLANT SYSTEM	Fan air flow w/o restriction (m3/s)	7		
	Available restriction on air flow (mm CE)	20		
	Type of coolant	GENCOOL		
	Thermostat (°C)	82-94		
	Emissions PM (g/kWh)	0.104		
EMISSIONS	Emission CO (g/kW.h)	0.51		
	Emissions HCNOx (g/kWh)	3.73		
	Emission HC (g/kW.h)	0.11		











ALTERNATOR SPECIFICATIONS

	Alternator brand	LEROY SOMER	
	Alternator	LSA462L9	
	Number of phase	3	
	Power factor (Cos Phi)	0.8	
	Altitude (m)	<1000	
	Overspeed (rpm)	2250	
	Number of pole	4	
DATA	Excitation system	SHUNT	
	Insulation class / Temperature class	H/H	
GENERAL DATA	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	
	Continuous Nominal Rating 40°C (kVA)	343	
	Standby Rating 27°C (kVA)	375	
	Efficiencies 4/4 load (%)	93.2	
	Air flow (cfm)	0.51	
	Short circuit ratio (Kcc)	0.49	
	Direct axis synchro reactance unsaturated (Xd) (%)	290	
	Quadra axis synchro reactance unsaturated (Xq) (%)	174	
	Open circuit time constant (T'do) (ms)	2180	
	Direct axis transient reactance saturated (X'd) (%)	13	
	Short circuit transient time constant (T'd) (ms)	105	
OTHER	Direct axis subtransient reactance saturated (X"d) (%)	8	
	Subtransient time constant (T"d) (ms)	10	
DATA	Quadra axis subtransient reactance saturated (X"q) (%)	9.9	
	Zero sequence reactance unsaturated (Xo) (%)	0.4	
	Negative sequence reactance saturated (X2) (%)	8.9	
	Armature time constant (Ta) (ms)	16	
	No load excitation current (io) (ms)	1.1	
	Full load excitation current (ic) (A)	3.8	
	Full load excitation voltage (uc) (A)	34	
	Recovery time (Delta U = 20% transitoire) (ms)	<500	
Motor start (Delta U = 20% perm. or 50% trans.)		840	
	Transient dip (4/4 charge) - PF : 0,8 AR (%)	14.5	
	No load losses (kW)	6.6	
	Heat rejection (kW)	19	







CONTROL PANELS

Standard

NEXYS

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, Alr 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



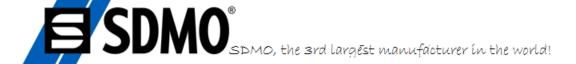
50 to 10000 GAL fuel tanks, UL142 listed

- •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













M227

Weather / Soundproof Enclosure



- 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)@1m dB(A)@7m LWA		Dimensions (mm)	Weight (kgs)	Tank (I)
J280UC3	83.5	73.5	N/A	4004 x 1380 x 2145	3290	390

