

MODEL	J150U
Stand-by Power @ 60Hz	150kW / 188 kVA
Prime Power @ 60Hz	137 kW / 171 kVA

Standard Features

- General features :**
- Engine (JOHN DEERE, 6068HF120-153)
 - Charge alternator 12 V
 - Governor: Mechanical
 - Alternator (LEROY SOMER, LSA442M95)
 - Single bearing alternator IP 23 , insulation class H /H
 - Radiator 50°C [122°F]°C max. T° air inlet with coolant cap
 - Skid and vibration isolators
 - Dry type air filter
 - Main line circuit breaker
 - Microprocessor control panel
 - 12 V battery, rack and cable
 - Industrial silencer (loose)
 - User manual
 - CSA Certified



Generator Ratings

Voltage	HZ	Phase	P.F	Standby Amps	Standby Ratings kW/kVA	Prime Ratings kW/kVA
480/277	60	3	0.8	226	150 / 188	137 / 171
440/254	60	3	0.8	247	150 / 188	137 / 171
380/220	60	3	0.8	286	150 / 188	137 / 171
240/120	60	3	0.8	421	140 / 175	127 / 159
220/127	60	3	0.8	493	150 / 188	137 / 171
208/120	60	3	0.8	486	140 / 175	127 / 159
600/347	60	3	0.8	181	150 / 188	137 / 171

PRP : Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO 8528-1. A 10% overload capability is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO 3046-1

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.

Conditions of sale

- SDMO provides a full line of products with high quality recognized engines and alternators.
- Service and parts are available from SDMO distributors as a single source of responsibility.
- Each and every unit is factory tested. All generator sets are also prototype tested.
- Warranty according to our standard conditions. Five years extended also available



ENGINE DATA

Manufacturer / Model	JOHN DEERE 6068HF120-153 , 4-cycle, Turbo , Air/Air DC
Cylinder Arrangement	6 X L
Displacement	6.72L [410.1C.I.]
Bore and Stroke	106mm [4.2in.] X 127mm [5.0in.]
Compression ratio	17 : 1
Rated RPM	1800 Rpm
Piston Speed	7.62m/s [25.0ft./s]
Max. stand by Power at rated RPM	161kW [216BHP]
Frequency regulation, steady state	+/-2. 5%
BMEP	14.8bar [214psi]
Governor : type	Meca

Exhaust System

Exhaust gas flow	473L/s [1002cfm]
Exhaust temperature	600°C [1112°F]
Max back pressure	750mm CE [30in. WG]

Fuel System

110% (Stand By power)	41.5L/h [11.0gal/hr]
100% (of the Prime Power)	38L/h [10.0gal/hr]
75% (of the Prime Power)	29L/h [7.7gal/hr]
50% (of the Prime Power)	20.5L/h [5.4gal/hr]
Total fuel flow	112L/h [29.6gal/hr]

Oil System

Total oil capacity w/filters	21.5L [5.7gal]
Oil Pressure low idle	1bar [14.5psi]
Oil Pressure rated RPM	5bar [72.5psi]
Oil consumption 100% load	0.04L/h [0.0gal/hr]
Oil capacity carter	20.6L [5.4gal]

Thermal balance 100% load

Heat rejection to exhaust	105kW [5970Btu/mn]
Radiated heat to ambient	17.5kW [995Btu/mn]
Heat rejection to coolant	59kW [3355Btu/mn]

Air intake

Max. intake restriction	625mm CE [25in. WG]
Engine air flow	213L/s [451cfm]

Coolant System

Radiator & engine capacity	25.8L [6.8gal]
Max water temperature	105°C [221°F]
Outlet water temperature	93°C [199°F]
Fan power	5 kW
Fan air flow	N/A
Available restriction on air flow	20mm CE [0.8in. WG]
Type of coolant	Gencool
Thermostat	82-94 °C

Emissions

HC	N/A
CO	N/A
Nox	N/A
PM	N/A



ALTERNATOR SPECIFICATIONS

GENERAL DATA

- Compliance with NEMA MG21, UTE NF C51.111, VDE 0530, BS 4999, CSA standards.
- Vacuum-impregnated windings with epoxy varnish.
- IP21 drip proof.

ALTERNATOR DATA

Manufacturer / Type	LEROY SOMER LSA442M95
Number of phase	3
Power factor (Cos Phi)	0.8
Altitude	< 1000 m
Overspeed	2250 rpm
Pole : number	4
Exciter type	Shunt
Insulation : class, temperature rise	H / H
Voltage regulator	R230
Sustained short circuit current	-
Total harmonics (TGH/THC)	< 4%
Wave form : NEMA = TIF – TGH/THC	< 50
Wave form : CEI = FHT – TGH/THC	< 2%
Bearing : number	1
Coupling	Direct
Voltage regulation 0 to 100% load	+/- 1%
Recovery time (20% Volt dip) ms	500 ms
SkVA with 90 % of nominal sustained voltage (at 0.4 PF)	N/A

OTHER ALTERNATOR DATA

Continuous nominal rating @ 40°C	174 kVA
Standby rating @ 27°C	206 kVA
Efficiencies @ 4/4 load	92.3 %
Air flow	0.44m ³ /s [932.30cfm]
Short circuit ratio;50 (Kcc)	0.41
Direct axis synchro reactance unsaturated (Xd)	331 %
Quadra axis synchro reactance unsaturated (Xq)	198 %
Open circuit time constant;50 (T'do)	2865 ms
Direct axis transient reactance saturated (X'd)	11.5 %
Short circuit transient time constant (T'd)	100 ms
Direct axis subtransient reactance saturated (X''d)	6.9 %
Subtransient time constant (T''d)	10 ms
Quadra axis subtransient reactance saturated (X''q)	8.2 %
Zero sequence reactance unsaturated (Xo)	0.9 %
Negative sequence reactance saturated (X2)	7.6 %
Armature time constant (Ta)	15 ms
No load excitation current (io)	0.6 A
Full load excitation current (ic)	2 A
Full load excitation voltage (uc)	37 V
Recovery time (Delta U = 20% transitoire)	500 ms
Motor start (Delta = 20% perm. Or 50% trans.)	500 kVA
Transient dip (4/4 charge) – PF : 1.8 AR	15.1 %
No load losses	3.87 kW
Heat rejection	12.5 kW

Control Panels

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

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

Options

Engine and Radiator

- Heat shield protection
- Oil drain extension
- Heavy duty air filter
- Lube oil drain pump
- Radiator core guard
- Battery charger
- Block heater

Alternator

- Anti condensation heater
- Enforced impregnation
- Oversized alternator

Control panel

- NFPA 110 level 1
- Paralleling system
- Remote annunciator
- Oil temperature shutdown
- Key start panel

Exhaust

- Residential silencer
- Critical silencer
- Flexible exhaust conn.

Literature

- Parts
- Maintenance

Fuel

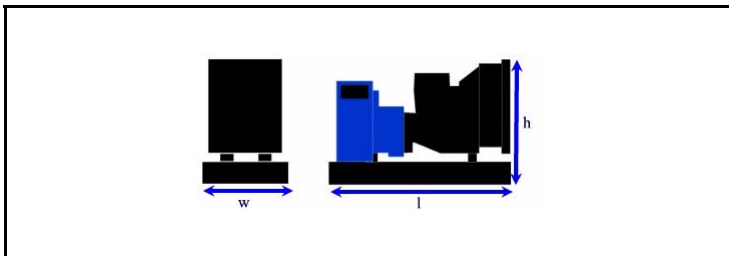
- Day tank
- Subbase fuel tanks UL
- Water separator fuel filter

Enclosure

- M226
- Silent 70.1 db @ 7m [23 Ft] (stby)

Weight and Dimensions

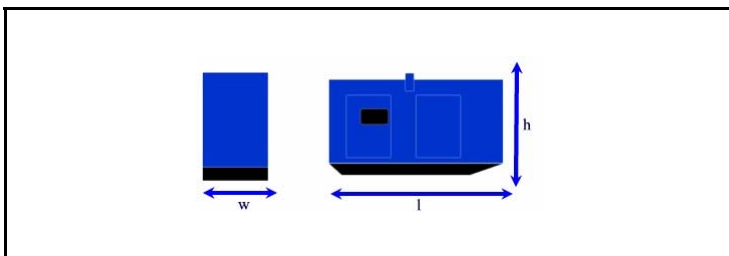
Open Model Excluding option



Overall size l x w x h :
2370mm [93in] x 1114mm [44in] x 1480mm [58in]

Weight :
1540kg [3394lbs] Net 1590kg [3504lbs] Gross

With Optional Enclosure



Overall size l x w x h :
3508mm [138in] x 1200mm [47in] x 1830mm [72in]

Weight :
2020kg [4452lbs] Net 2070kg [4562lbs] Gross



DSG Canada
230-29th St. E
Saskatoon, SK
S7J 1E2

Saskatoon Diesel – Swift Current Diesel

(877) 433-3735
(800) 667-6879
(306) 242-7644
(306) 242-5457 Fax
www.dieselservices.com
stu@dieselservices.com



TYPE OF ENCLOSURE	J150U
Canopy	M226



GENSET	Dimensions	Weight	dB(A)@1m	dB(A)@7m	dB(A)@15m
J150U	3508 m x 1200 mx 1830 m 138 in x 47 in x 72 in	2020 kgs 4454 lbs	80.1	70.1	66.1

Standard Specifications

- Protects stationary and mobile generator against bad weather, against theft and reduces the noise level.
- Enclosures are of 12 gauge steel. Steel sheet is 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 mounted on enclosure door for control viewing.
- A critical silencer is mounted inside the enclosure.
- Emergency stop button is accessible from outside enclosure.