



R75UC

RENTAL POWER

MODEL	R75UC
Prime Power @ 60Hz	59kW / 74 kVA
Stand by Power @ 60Hz	65 kW / 81 kVA



Generator Ratings

Voltage	HZ	Phase	Power Factor	Prime Power Amps	Prime Ratings kW/kVA	Stand by Ratings kW/kVA
480/277 - 440/254	60	3	0.8	89	59 / 74	65 / 81
220/127 - 240/139	60	3	0.8	193	59 / 74	65 / 81
208/120	60	3	0.8	191	55 / 68	59 / 74
120/240	60	1	1	150	36 / 36	40 / 40

FEATURES

SOUND ATTENUATED ENCLOSURE

- Compact and very rugged 12 gauge zinc coated steel construction that is electrostatically painted for a durable finish.
- The sound level is a quiet 68 dB (A) at 23ft at full load.
- Three large lockable doors allow excellent access for maintenance.
- Emergency stop buttons on the control panel and on enclosure exterior for safety.
- Tested and certified single point lifting eye.

MULTI-VOLTAGE DISTRIBUTION PANEL / RECEPTACLES

- A lockable voltage selector switch allows you to select various voltage from 480/277V 3ph to 120/208V 3ph as well as 120/240V 1ph.
- Main bus connection studs enclosed behind an easy access door and that is lockable for operator safety.
- Receptacles for single Phase 120V and 240V.

DESIGNED FOR RENTAL

- EPA Tiers II Off-highway compliant engine.
- Fuel tank for 24 hour operation
- Forklift pockets for easy handling
- 110% containment skid to prevent oil, coolant and fuel spills. Special access port on top of the fuel tank for easy cleaning of the tanks interior.
- Heavy duty two stage air filter, water/fuel separator, battery disconnect switch.





ENGINE DATA

Manufacturer / Model	JOHN DEERE 4045TF270 , 4-cycle, Turbo
Cylinder Arrangement	In-line 4
Displacement	273.4 C.I. (4.48L)
Bore and Stroke	4.2in. (106mm) X 5.0in (127mm)
Compression ratio	17 : 1
Rated RPM	1800 Rpm
Piston Speed	25.0ft./s (7.62m/s)
Max. stand by Power at rated RPM	106BHP (79kW)
Frequency regulation, steady state	+/-2. 5%
BMEP	159psi (11bar)
Governor : type	Meca/Mechanical

Fuel System

110% (Stand By power)	5.4gal/hr (20.5L/h)
100% (of the Prime Power)	5.0gal/hr (19L/h)
75% (of the Prime Power)	3.8gal/hr (14.5L/h)
50% (of the Prime Power)	2.8gal/hr (10.5L/h)
Fuel Tank Capacity	103 Gallons (300 L))

Oil System

Total oil capacity w/filters	3.6gal (13.5L)
Oil Pressure low idle	14.5psi (1bar)
Oil Pressure rated RPM	72.5psi (5bar)
Oil consumption 100% load	0.005gal/hr (0.02L/h)
Oil capacity	3.3gal (12.5L)

Coolant System

Radiator & engine capacity	6.2gal (23.6L)
Max water temperature	221°F (105°C)
Outlet water temperature	199°F (93°C)
Fan power	3 kW
Fan air flow	6569cfm (3.1m3/s)
Available restriction on air flow	0.8in. WG (20mm CE)
Thermostat	82-94 °C

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 / Model	LERROY SOMER LSA432L6
Phase	3
Power factor (Cos Phi)	0.8
Altitude	< 1000 m
Overspeed	2250 rpm
Pole	4
Exciter type	AREP
Insulation : class/temperature rise	H / H
Voltage regulator	R448
Motor starting capability PF=0.6 rotor blocked, 35% voltage dip	215 kVA
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



Control Panel

NEXYS



- Digital Control Panel with Manual Run/Off/Auto control switch
- Auto start, 2 wire.
- Red emergency stop pushbutton
- Display: Frequency meter, volt meter, ammeter, fuel level, oil pressure, water temperature, running hours
- Alarms: Fuel level, low battery
- Shutdowns: High water temperature, low oil pressure, overcrank, overspeed
- Voltage adjusting rheostat
- Printed circuit board control logic
- Panel light

Distribution Panel

RECEPTACLES



- 1-Single Phase- 20 Amps 120V GFCI Duplex type
- 1-Single Phase- 30 Amps 120V 3-Way Twist type
- 1-Single Phase- 30 Amps 240V 3-Way Twist type
- 50 Amps 120/240V Temporary power
- Individual circuit breaker protection for receptacles

BUS BAR CONNECTION



- Main bus connection studs enclosed behind a lockable access door for easy access and operator safety.
- Strain relief to prevent cables from being pulled free from bus connections

Environmentally Friendly

FUEL TANK



- 103 Gallons (390 Liters) fuel tank. 24 hour capacity.
- Complete containment of oil, coolant and fuel.
- Access "Port" allowing for easy cleaning of the interior of the fuel tank.



Options

Engine

- 120V 1000W Block heater
- 120V 1500W Block heater
- Lube oil drain pump
- Electronic governor
- 5 Amp Battery charger 120V or 240V
- Hot Part Protection

Alternator

- Anti condensation heater
- Enforced impregnation

Control panel

- Low coolant level
- Upgrade to Telys Panel
- NFPA 110 (Require Telys Panel)
- Software for remote monitoring

Miscellaneous

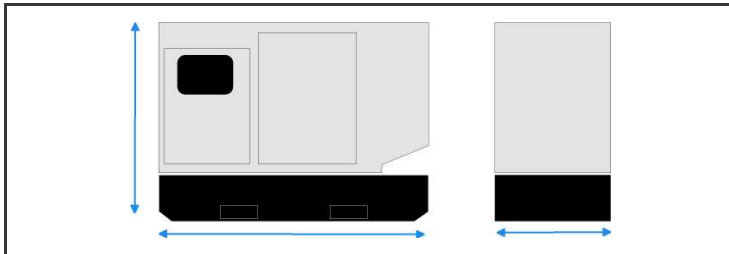
- Road trailer
- Deduct for standard tank (8 hours)

Literature

- Parts
- Maintenance

Weight and Dimensions

Sound Attenuated Enclosure with Environmentally Friendly Design



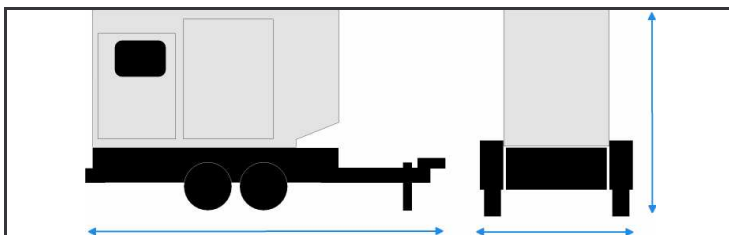
Overall size l x w x h :

91in (2300mm) x 43in (1080mm) x 74.8in (1900mm)

Weight :

3596lbs (1771kg) Dry 4556lbs (2071kg) Wet

Trailer (optional)



Please contact us

SDMO Generating Sets, Inc

West Coast Office & Warehouse
14751 Franklin Avenue, Suite B
Tustin, CA 92780
Tel (1) 714 505 8880
Fax (1) 714 505 8808

East Coast Office & Warehouse
11451 NW 36th Avenue
Miami, FL 33167

