



R120UC

RENTAL POWER

| MODEL | R120UC |
|------------------------------|-------------------------|
| <i>Prime Power @ 60Hz</i> | <i>96kW / 120 kVA</i> |
| <i>Stand by Power @ 60Hz</i> | <i>106 kW / 132 kVA</i> |



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 | 144 | 96 / 120 | 106 / 132 |
| 220/127 - 240/139 | 60 | 3 | 0.8 | 315 | 96 / 120 | 106 / 132 |
| 208/120 | 60 | 3 | 0.8 | 333 | 96 / 120 | 106 / 132 |
| 120/240 | 60 | 1 | 1 | 346 | 83 / 83 | 89 / 89 |

FEATURES

SOUND ATTENUATED ENCLOSURE

- o Compact and very rugged 12 gauge zinc coated steel construction that is electrostatically painted for a durable finish.
- o The sound level is a quiet 69.6 dB (A) at 23ft at full load.
- o Three large lockable doors allow excellent access for maintenance.
- o Emergency stop buttons on the control panel and on enclosure exterior for safety.
- o Tested and certified single point lifting eye.

MULTI-VOLTAGE DISTRIBUTION PANEL / RECEPTACLES

- o 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.
- o Main bus connection studs enclosed behind an easy access door and that is lockable for operator safety.
- o Receptacles for single Phase 120V and 240V.

DESIGNED FOR RENTAL

- o EPA Tiers II Off-highway compliant engine.
- o Fuel tank for 24 hour operation
- o Forklift pockets for easy handling
- o 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.
- o Heavy duty two stage air filter, water/fuel separator, battery disconnect switch.





ENGINE DATA

| | |
|------------------------------------|--------------------------------|
| Manufacturer / Model | JOHN DEERE 4045HF275 , 4-cycle |
| 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 | 154BHP (115kW) |
| Frequency regulation, steady state | +/- 0. 5% |
| BMEP | 227psi (15.7bar) |
| Governor : type | Electronic |

Fuel System

| | |
|---------------------------|---------------------|
| 110% (Stand By power) | 6.7gal/hr (25.4L/h) |
| 100% (of the Prime Power) | 6.1gal/hr (23.1L/h) |
| 75% (of the Prime Power) | 4.7gal/hr (17.7L/h) |
| 50% (of the Prime Power) | 3.6gal/hr (13.7L/h) |
| Fuel Tank Capacity | 133 Gallons (505 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 | 0.01gal/hr (0.02L/h) |
| Oil capacity | 3.3gal (12.5L) |

Coolant System

| | |
|-----------------------------------|----------------------|
| Radiator & engine capacity | 5.3gal (20.2L) |
| Max water temperature | 221°F (105°C) |
| Outlet water temperature | 199°F (93°C) |
| Fan power | 2 kW |
| Fan air flow | 9324cfm (4.4m3/s) |
| Available restriction on air flow | 0.8in. WG (20mm CE) |
| Thermostat | 180-202°F (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 LSA442S7 |
| 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 | 330 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



- 133 Gallons (505 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
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- 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

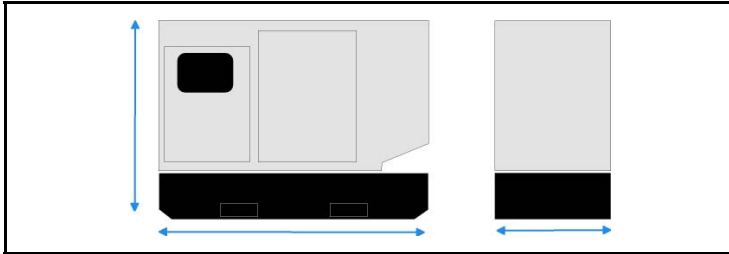
- Road trailer
- Deduct for standard tank (8 hours)

Literature

- Parts
- Maintenance

Weight and Dimensions

Sound Attenuated Enclosure with Environmentally Friendly Design



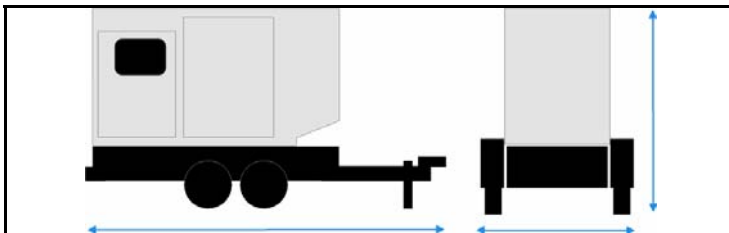
Overall size l x w x h :

102.4in (2602mm) x 46.1in (1170mm) x 74.8in (1900mm)

Weight :

4631lbs (2100kg) Dry 5764lbs (2614kg) Wet

Trailer (optional)



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