



R460UC

RENTAL POWER

MODEL	R460UC
Prime Power @ 60Hz	365 kW / 456 kVA
Stand by Power @ 60Hz	402 kW / 502kVA



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	553	365 / 456	402 / 502
220/127 - 240/139	60	3	0.8	1207	365 / 456	402 / 502
208/120	60	3	0.8	1221	352 / 440	371 / 464

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 74 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

- A 12 leads alternator allows 120/208V 3ph or 277/480V 3ph.
- Main bus connection studs enclosed behind an easy access door and that is lockable for operator safety.

DESIGNED FOR RENTAL

- EPA Tiers II Off-highway compliant engine.
- Fuel tank for 18 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	VOLVO-PENTA TAD1242GE , 4-cycle
Cylinder Arrangement	In-line 6
Displacement	742.2 C.I. (12.13L)
Bore and Stroke	5.2in. (131mm) X 5.9in (150mm)
Compression ratio	17.5 : 1
Rated RPM	1800 Rpm
Piston Speed	29.5ft./s (9.00m/s)
Max. stand by Power at rated RPM	576BHP (430kW)
Frequency regulation, steady state	+/-0. 5%
BMEP	326psi (22.5bar)
Governor : type	Electronic

Fuel System

110% (Stand By power)	28.0gal/hr (106.0L/h)
100% (of the Prime Power)	24.5gal/hr (92.7L/h)
75% (of the Prime Power)	17.9gal/hr (67.8L/h)
50% (of the Prime Power)	12.0gal/hr (45.5L/h)
Fuel Tank Capacity	362 Gallons (1368 L)

Oil System

Total oil capacity w/filters	9.2gal (35.0L)
Oil Pressure low idle	36.2psi (2.5bar)
Oil Pressure rated RPM	79.7psi (5.5bar)
Oil consumption 100% load	0.04gal/hr (0.14L/h)
Oil capacity	8.2gal (31.0L)

Coolant System

Radiator & engine capacity	11.6gal (44.0L)
Max water temperature	217°F (103°C)
Outlet water temperature	199° F (93° C)
Fan power	19.0 kW
Fan air flow	21827cfm (10.3m3/s)
Available restriction on air flow	1.9in. WG (47mm CE)
Thermostat	180-204° F (82-95 °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	LEROY SOMER LSA471M6
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	1230 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

TELYS

- 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

BUS BAR CONNECTION



- Main bus connection studs enclosed behind a lockable access door for easy access and operator safety.

Environmentally Friendly

FUEL TANK



- 362 Gallons (1368 Liters) fuel tank. 18 hour capacity.
- Complete containment of oil, coolant and fuel.
- "Port" allowing easy cleaning of the interior of the fuel tank.

Options

Engine

- 120V 1500W Block heater
- 120V 2250W Block heater
- 3 Amp Battery charger 120V or 240V
- Hot Part Protection

Alternator

- Anti condensation heater
- Enforced impregnation

Control panel

- Low coolant level
- NFPA 110
- Software for remote monitoring

Miscellaneous

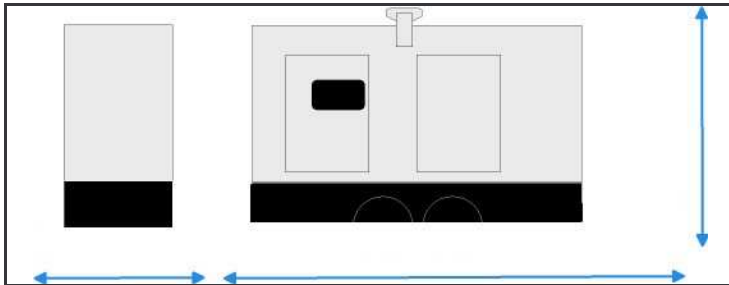
- Road trailer

Literature

- Parts
- Maintenance

Weight and Dimensions

Sound Attenuated Enclosure with Environmentally Friendly Design



Overall size l x w x h :

178.2in (4526mm) x 55.5in (1409mm) x 105.9in (2779mm)

Weight :

10734lbs (4879kg) Dry 13750lbs (6250kg) Wet

Trailer (optional)

