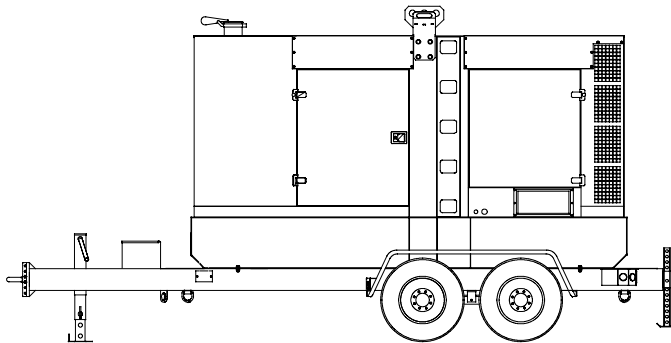




Ratings Range

		60 Hz
Standby:	kW	243-288
	kVA	304-360
Prime:	kW	221-262
	kVA	276-327



Industrial Towable Generator Sets

- Kohler Co. provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- A one-year limited warranty covers all systems and components.
- Generator sets are available with and without trailers.
- Generator set features:
 - Durable galvanized steel, sound-attenuating housing.
 - Electrical power panel.
 - Leroy Somer single-bearing alternator with insulation class H.
 - Unit-mounted radiator with 45°C (113°F) ambient air capability.
 - Skid and vibration isolators.
 - Main line circuit breaker, 800 amps.
 - Microprocessor controller with emergency stop switch.
 - Externally mounted, recessed emergency stop switch.
 - Generator set and trailer operation literature.
- Engine features:
 - John Deere engine with 12-volt battery charging alternator.
 - Heavy-duty air cleaner with air restrictor indicator.
 - Battery, battery rack, and cables.
 - Engine certified by the Environmental Protection Agency (EPA) to conform to tier level in effect at time of manufacture.
 - Water separator fuel filter.
 - Battery disconnect switch.
 - Block heater, 120 V/2250 W.
- Enclosure/fuel tank package features:
 - Quiet operation, 71 dB(A) @ 7 m (23 ft.) (full load).
 - Lockable housing doors.
 - Subbase fuel tank, 950 L (251 gal.).
 - 110% environmental containment basin for fuel, oil, and coolant.
- Trailer features:
 - Lunette eye.
 - Lockable utility tool box.
 - Running lights with 7-wire harness and connector.
 - Dual-axle trailer with electric brake system including breakaway and battery backup. 3629 kg (8000 lb.) rating per axle.
 - Steel wheels, 8-bolt, and 215/75R17.5 LRH tires with 2180 kg (4805 lb.) load rating.
 - Rear stabilizer trailer jacks.

Generator Set Ratings

Alternator	Voltage	Ph	Hz	Standby Rating		Prime Rating	
				kW/kVA	Amps	kW/kVA	Amps
LSA462L9	120/208	3	60	243/304	844	221/276	767
	277/480	3	60	288/360	433	262/327	394

RATINGS: All three-phase units are rated at 0.8 power factor. *Standby Ratings:* The emergency standby power rating is applicable for supplying emergency power in variable load applications in accordance with ISO-8528-1. Overload is not allowed. *Prime Power Ratings:* 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 a 12-hour period of operating in accordance with ISO-3046/1. Obtain the technical information bulletin (TIB-101) on ratings guidelines for the complete ratings definitions. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. **GENERAL GUIDELINES FOR DERATION:** *Altitude:* Derate 4% per 300 m (984 ft.) elevation above 1500 m (4921 ft.). *Temperature:* Derate 0.45% per 5°C (9°F) temperature above 25°C (77°F).

Alternator Specifications

- NEMA-MG21, UTE NF C51.111, VDE 0530, BS 4999, CSA standards compliance for temperature rise and motor starting.
- Self-ventilated and dripproof construction.
- Vacuum-impregnated windings with fungus-resistant epoxy varnish for dependability and long life.
- Superior voltage waveform from a two-thirds pitch stator and skewed rotor.

Specifications	
Ratings voltage	480
Standby rating @ 27°C, kVA	375
Prime rating @ 40°C, kVA	343
Efficiency @ full load, %	93.2
Air flow, m ³ /min. (cfm)	30.6 (1081)
Direct axis subtransient reactance (X"d), %	8

Specifications	Alternator
Manufacturer	Leroy Somer
Type	4-Pole, Rotating-Field
Exciter type	Shunt
Leads: quantity, type	12, Reconnectable
Voltage regulator	Solid State, R230
Insulation:	NEMA MG1
Material	Class H
Bearing: quantity, type	1, Sealed
Coupling	Direct
Voltage regulation, no-load to full-load	±1%

Application Data

Engine

Engine Specifications	
Manufacturer	John Deere
Engine model	6090HF485-315
Engine type	4-Cycle, Turbocharged, Aftercooled
Cylinder arrangement	6 Inline
Displacement, L (cu. in.)	9 (549)
Bore and stroke, mm (in.)	118 x 136 (4.7 x 5.4)
Compression ratio	16:1
Piston speed, m/min. (ft./min.)	490 (1607)
Rated rpm	1800
Max. power at rated rpm, kWm (BHP)	315 (422)
Valve material:	
Intake	Chromium-Silicon Steel
Exhaust	Stainless Steel
Governor type	Electronic
Frequency regulation, no-load to full-load	ISO 5%
Frequency regulation, steady state	±2.5%
Air cleaner type, all models	Dry

Exhaust

Exhaust System	
Exhaust manifold type	Dry
Exhaust flow at rated kW, m ³ /min. (cfm)	55 (1943)
Exhaust temperature at rated kW, dry exhaust, °C (°F)	472 (882)
Maximum allowable back pressure, kPa (in. Hg)	9.7 (2.9)
Exhaust outlet size at engine hookup, mm (in.)	100 (3.94)

Engine Electrical

Engine Electrical System	
Battery charging alternator:	
Ground (negative/positive)	Negative
Volts (DC)	12
Starter motor rated voltage (DC)	12
Battery, recommended cold cranking amps (CCA):	
Quantity, CCA rating each	One, 1000
Battery voltage (DC)	12

Fuel

Fuel System	
Max. fuel flow, Lph (gph)	240 (63.4)
Fuel prime pump	Manual
Recommended fuel	#2 Diesel
Fuel tank capacity, L (gal.)	950 (251)

Lubrication

Lubricating System	
Type	Full Pressure
Oil pan capacity, L (qt.)	34.0 (35.9)
Oil pan capacity with filter, L (qt.)	35.0 (37.0)

Application Data

Cooling

Radiator System

Ambient temperature, °C (°F)	45 (113)
Radiator system capacity, including engine, L (gal.)	40 (10.6)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	—
Water pump type	Centrifugal
Fan, kWm (HP)	17.33 (23.2)
Max. restriction of cooling air, intake and discharge side of radiator, kPa (in. H ₂ O)	—

Operation Requirements

Air Requirements

Radiator-cooled cooling air, m ³ /min. (scfm) *	420 (14834)
Combustion air, m ³ /min. (cfm)	22.7 (802)

* Air density = 1.20 kg/m³ (0.075 lbm/ft³)

Fuel Consumption

Diesel, Lph (gph) at % load	Prime Rating
100% (of the prime rating)	67.88 (17.9)
75% (of the prime rating)	51.29 (13.6)
50% (of the prime rating)	35.06 (9.3)

Controllers



Decision-Maker® 1000

Standard Features

- LCD display panel
- User buttons for start, stop, and menu scroll and selection
- Emergency stop button
- On/off key switch
- LED indication for status
- Panel-mounted battery fuse
- Panel lights

LCD Panel Features

- Three lines of text and graphic display
- Icons for quick identification of system status

Functions

- View and adjust system operation parameters
- View system faults

Viewable/Selectable Parameters (may require optional module)

- Mode of operation
- Battery voltage
- Frequency
- Time delay countdown
- Hourmeter
- Engine speed
- Fuel level (%)
- Coolant temperature
- Oil pressure
- Voltage: phase, phase-to-neutral, total voltage
- Current

Viewable Faults

- Overspeed
- Overcrank
- Low fuel level
- Coolant temperature
- Oil pressure
- Battery charger
- Frequency meter, ammeter, voltmeter
- Emergency stop

Distribution Panel

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

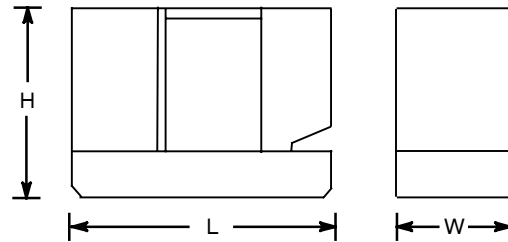


Available Accessories

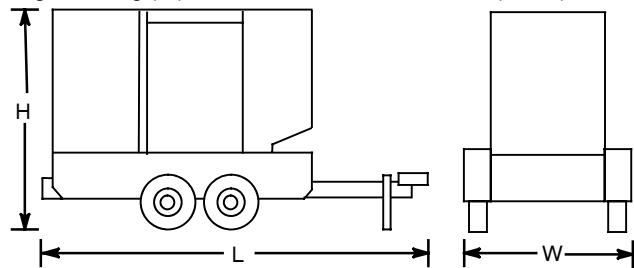
- Battery Charger, Equalize/Float Type
- Bottle Jack
- Cable Rack (bolt on)
- Fire Extinguisher
- Remote Start Connections
- Spare Tire
- Trailer (includes utility tool box)

Dimensions and Weights

Overall Size, L x W x H, mm (in.): 4048 x 1360 x 2437
 (159.38 x 53.54 x 95.94)
 Weight, wet, kg (lb.): 5020 (11067)



Overall Size, L x W x H, mm (in.): 6235 x 2011 x 3121
 (245.49 x 79.16 x 122.88)
 Weight, wet, kg (lb.): 6607 (14567)



Note: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

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