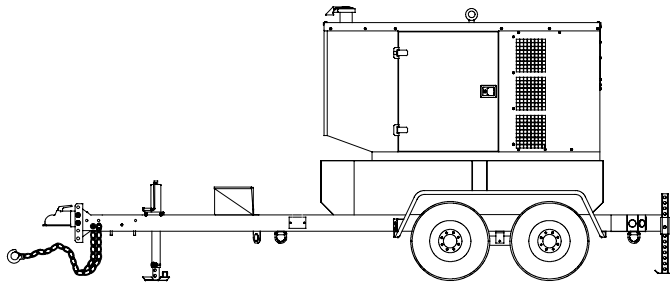




**Ratings Range**

		<b>60 Hz</b>
<b>Standby:</b>	<b>kW</b>	89-106
	<b>kVA</b>	89-132
<b>Prime:</b>	<b>kW</b>	83-96
	<b>kVA</b>	83-120



**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.
  - Unit-mounted radiator with 45°C (113°F) ambient air capability with prime rating.
  - Skid and vibration isolators.
  - Main line circuit breaker, 400 amps.
  - Microprocessor controller with emergency stop switch.
  - Externally mounted, recessed emergency stop switch.
  - Lockable generator output voltage selector switch wired for 277/480 V 3 phase, 120/208 V 3 phase, and 120/240 V 1 phase.
  - 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/1500 W.
- Enclosure/fuel tank package features:
  - Quiet operation, 68 dB(A) @ 7 m (23 ft.) (full load).
  - Lockable housing doors.
  - Subbase fuel tank, 505 L (133 gal.).
  - 110% environmental containment basin for fuel, oil, and coolant.
- Trailer features:
  - 2 5/16 in. ball hitch coupler with adaptability for an optional 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. 2722 kg (6000 lb.) rating per axle.
  - 15 x 6, 6-bolt steel wheels and ST225/75R15 LRD tires with 1152 kg (2540 lb.) load rating.
  - Rear stabilizer trailer jacks.

**Generator Set Ratings**

Alternator	Voltage	Ph	Hz	Standby Rating		Prime Rating	
				kW/kVA	Amps	kW/kVA	Amps
	120/208	3	60	104/130	361	94/118	326
LSA442S7	120/240	1	60	89/89	371	83/83	346
	277/480	3	60	106/132	159	96/120	144

**RATINGS:** All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 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 1.3% per 100 m (328 ft.) elevation above 3000 m (9842 ft.). *Temperature:* Derate 0.9% per 10°C (18°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	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%
Direct axis subtransient reactance (X"d), %	7.9

## Application Data

### Engine

Engine Specifications	
Manufacturer	John Deere
Engine model	4045HFS83
Engine type	4-Cycle, Turbocharged, Aftercooled
Cylinder arrangement	4 Inline
Displacement, L (cu. in.)	4.5 (273)
Bore and stroke, mm (in.)	106 x 127 (4.2 x 5.0)
Compression ratio	19:1
Piston speed, m/min. (ft./min.)	457 (1500)
Rated rpm	1800
Max. power at rated rpm, kWm (BHP)	118 (158)
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

### 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, 680
Battery voltage (DC)	12

### Fuel

Fuel System	
Max. fuel flow, Lph (gph)	112 (29.6)
Fuel prime pump	Manual
Recommended fuel	#2 Diesel
Fuel tank capacity, L (gal.)	505 (133)

### Lubrication

Lubricating System	
Type	Full Pressure
Oil pan capacity, L (qt.)	12 (12.7)
Oil pan capacity with filter, L (qt.)	13 (13.7)

## Application Data

### Operation Requirements

Fuel Consumption	
Diesel, Lph (gph) at % load	Prime Rating
100% (of the prime rating)	28.56 (7.5)
75% (of the prime rating)	24.82 (6.6)
50% (of the prime rating)	17.79 (4.7)

## 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

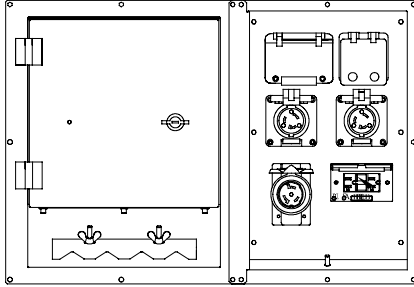
#### Viewable Faults

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

## Distribution Panel

### Receptacles

- Two 20-amp 120 V, 1 phase, GFCI duplex
- Two 50-amp 120/240 V twistlock (shore power)
- Individual receptacle circuit breakers



### 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

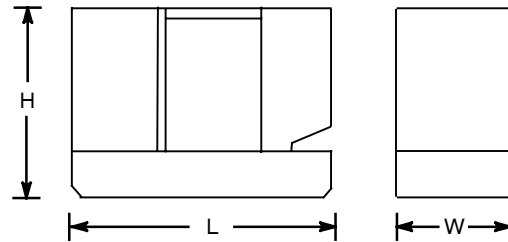


## Available Accessories

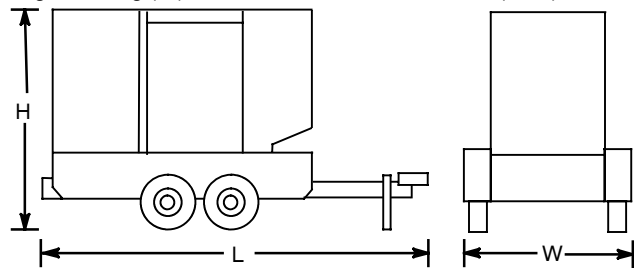
- Battery Charger, Equalize/Float Type
- Bottle Jack
- Cable Rack (bolt on)
- Camlock Style Load Connection Kit
- Fire Extinguisher
- Lunette Eye
- Remote Start Connections
- Spare Tire
- Trailer (includes utility tool box)

### Dimensions and Weights

Overall Size, L x W x H, mm (in.): 2602 x 1150 x 1915  
 (122.44 x 45.28 x 75.40)  
 Weight, wet, kg (lb.): 2614 (5762)



Overall Size, L x W x H, mm (in.): 5315 x 2011 x 2521  
 (209.24 x 79.16 x 99.23)  
 Weight, wet, kg (lb.): 3725 (8212)



**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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