

OCEANO COMMUNITY SERVICES DISTRICT

SAN LUIS OBISPO COUNTY OFF-HIGHWAY VEHICLE LICENSE FUND PROPOSAL

- a. Submittal Date: February 28, 2013
  
- 1. Name: Oceano Community Services District
  
- Address: 1655 Front Street  
Oceano, CA. 93445
  
- Phone: 805 481-6730
  
- Email: [ocsdgm@oceanocsd.org](mailto:ocsdgm@oceanocsd.org) Thomas Geaslen General Manager
  
- Title of Project: Oceano beach and park portable emergency generator system
  
  
- 2. Amount requested: \$20,000
  
- 3. Objective of project: Emergency Generator Purchase
  
  
- 6. Complete project description: Purchase of an Emergency Generator System to
  
  
- 7. Project Schedule: Once the Off-Highway Vehicle funding has been approved by the San Luis Obispo County Board of Supervisors, the OCSD will purchase the emergency backup generator in order to have it response ready to support emergency power requirements. This will ensure the emergency water delivery and sanitation collection systems that support Oceano off road enthusiasts. The Off-Highway Vehicle License Fund can then reimburse the OCSD for the actual costs up to \$25,000.
  
  
- 8. Justification: Because of its proximity to the Dunes, the OCSD sewer lift station on Pier Ave is the closest resource for emergency response when the need arises. This project is needed in order to provide a high level of service to residents and visitors and mitigate power loss incidents as quickly as possible. Funding of this project will remove a portion of the financial responsibility from the OCSD. The OCSD has supported this area for over 40 years. In the past fiscal year we have had two electrical power outages that disrupted the water distribution and sewer collection systems that service the ODSVRA along with the surrounding areas. ODSVRA dumps waste into sewer system and takes water delivery directly and through California State Parks approved service contracts. All of these are OCSD customers.

OCEANO COMMUNITY SERVICES DISTRICT

9. Long range plans: The use of this generator would have a life cycle of 20 years and would not anticipate any issues for that time period. This will support Emergency Response requirements set forth by California State Water Board and California Public Health. OCSD will assume responsibility for maintenance for the life cycle.

10. Description of Land Status: This project would support the unincorporated area of San Luis Obispo County (Oceano), California State Parks (Oceano Dunes), and the surrounding areas.

11. Additional Support: OCSD is a member of Cal-Warn (A coalition of member utilities that has the understanding to support each other in emergency situations) and this piece of equipment will also be available for utilization in California Emergencies should they arise and assistance called for from OCSD.

The emergency generator will also be available for use in the ODSVRA should it be needed.

12. History and Status of Resource: The OCSD services this area and it currently represents around 15% of its service costs. For over 40 years this area has been the vacation choice of thousands as well as daily visitors. The OCSD has provide water and sewer services. With the newly established regulations emergency service is now a priority.

13. Necessary Project Information: Equipment brochure

|                      |                      |          |
|----------------------|----------------------|----------|
| 14. Estimated costs: | Equipment Purchase:  | \$35,000 |
|                      | Administrative costs | \$ 0     |
|                      | Total                | \$35,000 |
|                      | OCSD Contribution    | \$15,000 |
|                      | OHV Grant            | \$20,000 |

15. Amount of Match Funds: OCSD will match 40% of the purchase price of the emergency generator

16. Experience of Similar Projects: The OCSD has demonstrated its ability in administering grant funded projects. In 2009, OHV funds were distributed to OCSD in the amount of \$54,614 for the purchase of equipment. This was used to purchase a dunes rescue vehicle. There has not been a distribution of OHV funds since this time.

17. Allowable Use Criteria:

This project is being applied for under the **Education and Safety** category. Providing a quick and effective emergency response is vital to sustaining off-highway motor vehicle recreational opportunities at the Dunes. Over 2 million visitors enjoy the Dunes annually and all can recreate at the park with the peace of mind that clean safe water and sanitation sewer services, should they need it, will not be interrupted in an emergency situation.

Please look with favor upon this request.

## Mobile Power 1800 RPM Diesel

### Standby Power Ratings

|      |        |       |
|------|--------|-------|
| 60HZ | 48 kVA | 38 kW |
|------|--------|-------|

### Prime Power Ratings

|      |        |       |
|------|--------|-------|
| 60HZ | 44 kVA | 35 kW |
|------|--------|-------|



Made In USA  
Generator available  
with or without trailer

### Baldor Mobile Power Generator Features

- Brushless alternator for long life, low maintenance
- Voltage regulation 1/2%
- 60 Hertz frequency
- Industrial grade Tier 3 John Deere engine
- Glow plugs
- Fuel/water separator
- Electronic governor
- Digital Controller with analog gauges. Automatic safety shutdowns with digital readouts for low oil pressure, high water temp, engine overcrank and engine overspeed. Low fuel level shutdown (user select), controller disconnect switch, voltage adjust pot.
- Analog gauges and meters for engine oil pressure, coolant temp., battery volts, and generator output volts, hertz, amps with phase select
- Illuminated instrumentation panel
- Main Circuit breaker for main power connection
- Circuit breakers for single phase receptacles
- Single phase receptacles are powered during all main voltage configurations
- Heavy gauge steel sound attenuated enclosure with internally mounted muffler. Durable powder coat paint finish. Pad lockable doors
- Single point lifting eye
- Long run, internal, single wall XLPE fuel tank
- 6 bolts to remove generator from trailer
- Premium grade DOT approved tandem axle highway trailer featuring: Torsion bar suspension, diamond plate aluminum fenders, front leveling jack, running lights, hydraulic brakes, lighted license plate bracket
- Generator available with trailer (TS45T) or without trailer (TS45S)
- 2" ball hitch coupling
- Battery included
- Warranty:
  - limited 3 year warranty
  - 1 year or 3000 hours parts and labor
  - 3 year or 3000 hours parts

### Options

- Block heater
- Battery charger
- Shore power inlet for easy connection to block heater or battery charger
- Electric brakes
- 2-5/16" ball hitch coupler or 3" pintle
- Automatic transfer switches
- Generator without trailer

## Generator Specifications – Preliminary

|  |                             |
|--|-----------------------------|
| <b>Standby Output 150°C Rise</b>       | <b>kVA/kW</b>               |
| Single phase @ 240V.....               | 27/27                       |
| 3 phase @ 208V.....                    | 46/37                       |
| 3 phase @ 240V.....                    | 46/38                       |
| 3 phase @ 480V.....                    | 48/38                       |
| <b>Prime Output 125°C Rise</b>         | <b>kVA/kW</b>               |
| Single phase @ 240V.....               | 25/25                       |
| 3 phase @ 208V.....                    | 44/35                       |
| 3 phase @ 240V.....                    | 44/35                       |
| 3 phase @ 480V.....                    | 44/35                       |
| <b>Amperage (Standby Rating)</b>       | <b>Amps</b>                 |
| Single phase amperage @ 240/120V.....  | 112/2X112                   |
| 3 phase amperage @ 208V.....           | 128                         |
| 3 phase amperage @ 240V.....           | 114                         |
| 3 phase amperage @ 480V.....           | 57                          |
| <b>Voltage-3 phase adjustable</b>      | 208/220/240/416/440/460/480 |
| <b>Voltage-Single phase adjustable</b> | 120/127/139/240/254/277     |
| 3 phase Power Factor.....              | 0.8                         |
| Voltage Regulation.....                | 1/2%                        |
| Frequency.....                         | 60 Hertz                    |
| Total Harmonic Distortion.....         | < 5%                        |
| Insulation.....                        | Class H                     |

## Engine Specifications

|  |                                 |
|--|---------------------------------|
| Manufacturer.....                                    | John Deere                      |
| Model.....   | 4024HF285                       |
| Cylinders.....                                       | 4                               |
| Induction system....                                 | Turbocharged, Charge Air Cooled |
| Displacement, L (cu. in.).....                       | 2.4L (146)                      |
| EPA Emissions Level.....                             | Tier 3                          |
| HP @ rated speed.....                                | 80                              |
| RPM.....   | 1800                            |
| Bore and stroke.....                                 | 3.4" x 4.1"                     |
| Lubrication capacity (with filter).....              | 7.6 Qts                         |
| Battery recommendation (min. cold cranking amps).... | 925                             |
| - Battery, battery rack and cable supplied           |                                 |
| - Spin-on oil filter                                 |                                 |
| - Thermostat controlled liquid cooling system        |                                 |
| - 12V engine alternator                              |                                 |
| - 12V starter motor                                  |                                 |

Ratings: - **Standby Ratings:** Standby ratings are applicable for supplying emergency power for the duration of a utility power outage. No overload capability for standby rating. Standby ratings in accordance with ISO 3046, BS55114, DIN 6271. **Prime Power Rating:** Prime power is the maximum power available for continuous duty. A 10% overload capacity is available for 1 hour out of 12 hours of operation. Manufacturer reserves the right to implement specifications or design changes without notice. **WARNING:** Do not connect generator to any building's electrical system unless a disconnect switch has been installed.

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## Receptacle Specifications

|   |     |
|---|-----|
| 120 Volt 20 Amp Duplex GFCI.....            | 3   |
| 120/240 Volt 50 Amp Twistlock (CS6369)..... | 3   |
| Two wire remote start capability.....       | Yes |

## Fuel System Specifications

|  |              |
|--|--------------|
| <b>Fuel Consumption Standby Rating</b> | <b>GPH</b>   |
| 1/2 load.....                          | 1.6          |
| Full load.....                         | 3.2          |
| <b>Approximate Run Time</b>            | <b>Hours</b> |
| 1/2 load.....                          | 50           |
| Full load.....                         | 25           |
| <b>Fuel Capacity</b>                   |              |
| Gallons.....                           | 80           |
| Fuel.....                              | Diesel       |

## Weights and Dimensions

|  |                  |
|--|------------------|
| Weight without fuel.....                     | 3425             |
| Weight without fuel and without trailer..... | 2595             |
| Dimensions with trailer (L x W x H) ..       | 146" x 62" x 87" |
| Dimensions without trailer (L x W x H) .     | 84" x 38" x 66"  |

## Sound Level

|                        |    |
|------------------------|----|
| Sound level dB(A)..... | 67 |
| 7 meters, full load    |    |

## Other Features

Start/Stop/Auto Switch, Alarm Horn, Voltage Adjust Pot, Controller Disconnect Switch, Trailer Side Markers and Running Lights.

Model: **40REOZT**

# KOHLER POWER SYSTEMS

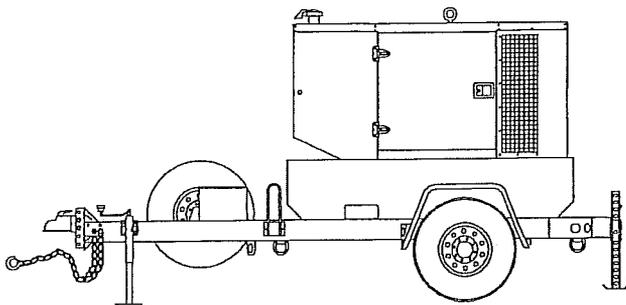
208-480 V

Diesel



## Ratings Range

|          |     | 60 Hz |
|----------|-----|-------|
| Standby: | kW  | 36-38 |
|          | kVA | 36-48 |
| Prime:   | kW  | 33-35 |
|          | kVA | 33-44 |



## 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 50°C (122°F) ambient air capability with prime rating.
  - Skid and vibration isolators.
  - Main line circuit breaker, 160 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:
  - Mitsubishi engine with 12-volt battery charging alternator.
  - Heavy-duty air cleaner with air restrictor indicator.
  - Battery, battery rack, and cables.
  - The generator set engine is certified by the Environmental Protection Agency (EPA) to conform to interim Tier 4 nonroad emissions regulations.
  - Water separator fuel filter.
  - Battery disconnect switch.
- Enclosure/fuel tank package features:
  - Quiet operation, 65 dB(A) @ 7 m (23 ft.) (full load).
  - Lockable housing doors.
  - Subbase fuel tank, 24-hour, 230 L (60 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.
  - Single-axle 3175 kg (7000 lb.) trailer with electric brake system including breakaway and battery backup.
  - 16 x 6, 6-bolt steel wheels and ST235/80R16 tires with 826 kg (1820 lb.) C tire load rating.
  - Rear stabilizer trailer jacks.

## Generator Set Ratings

| Alternator | Voltage | Ph | Hz | Standby Rating |      | Prime Rating |      |
|------------|---------|----|----|----------------|------|--------------|------|
|            |         |    |    | kW/kVA         | Amps | kW/kVA       | Amps |
| LSA432S25  | 120/208 | 3  | 60 | 38/48          | 132  | 35/44        | 121  |
|            | 120/240 | 1  | 60 | 36/36          | 150  | 33/33        | 138  |
|            | 277/480 | 3  | 60 | 38/48          | 57   | 35/44        | 53   |

**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 standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. *Prime Power Ratings:* At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528-1 and ISO-3046-1. For limited running time and continuous ratings, consult the factory. Obtain technical information bulletin (TIB-101) for ratings guidelines, complete ratings definitions, and site condition derates. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.

## 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), % | 5.7                    |

## Application Data

### Engine

| Engine Specifications                      |                        |
|--|------------------------|
| Manufacturer                               | Mitsubishi             |
| Engine model                               | S4S-Y3DT61SD           |
| Engine type                                | 4-Cycle, Turbocharged  |
| Cylinder arrangement                       | 4 Inline               |
| Displacement, L (cu. in.)                  | 3.3 (203)              |
| Bore and stroke, mm (in.)                  | 120 x 94 (4.7 x 3.7)   |
| Compression ratio                          | 19:1                   |
| Piston speed, m/min. (ft./min.)            | 432 (1416)             |
| Rated rpm                                  | 1800                   |
| Max. power at rated rpm, kWm (BHP)         | 43.9 (59)              |
| Valve material:                            |                        |
| Intake                                     | Chromium-Silicon Steel |
| Exhaust                                    | Stainless Steel        |
| Governor type                              | Mechanical             |
| Frequency regulation, no-load to full-load | ISO 5%                 |
| Frequency regulation, steady state         | <6.5%                  |
| 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)    | —         |
| Fuel prime pump              | Manual    |
| Recommended fuel             | #2 Diesel |
| Fuel tank capacity, L (gal.) | 230 (61)  |

### Lubrication

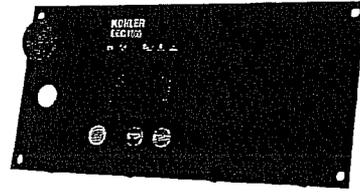
| Lubricating System                    |               |
|---------------------------------------|---------------|
| Type                                  | Full Pressure |
| Oil pan capacity, L (qt.)             | 9.0 (9.6)     |
| Oil pan capacity with filter, L (qt.) | 10 (10.4)     |

## Application Data

### Operation Requirements

| Fuel Consumption            |              |       |
|-----------------------------|--------------|-------|
| Diesel, Lph (gph) at % load | Prime Rating |       |
| 100% (of the prime rating)  | 12.2         | (3.2) |
| 75% (of the prime rating)   | 8.9          | (2.4) |
| 50% (of the prime rating)   | 6.1          | (1.6) |

## 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

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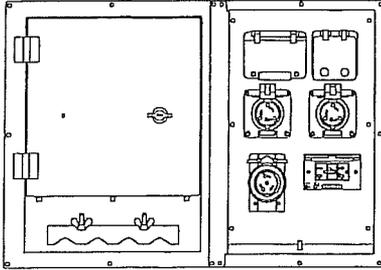
Kohler Power Systems, EMEA Headquarters  
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 12, rue des Hauts Flouvlers  
 94517 Thiais Cedex, France  
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Kohler Power Systems  
 Asia Pacific Headquarters  
 7 Jurong Pier Road  
 Singapore 619159  
 Phone (65) 6264-6422, Fax (65) 6264-6455

## Distribution Panel

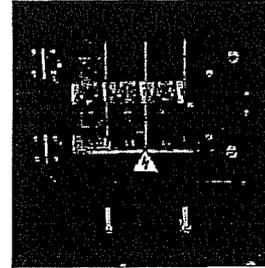
### Receptacles

- 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

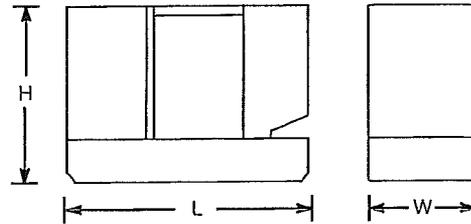


## Available Accessories

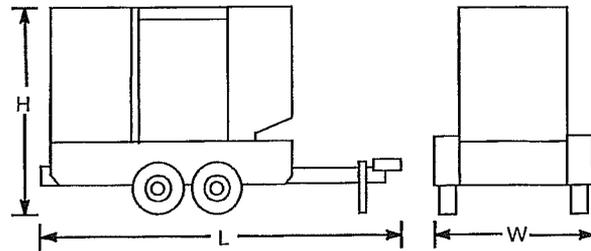
- Battery Charger, Equalize/Float Type
- Bottle Jack
- Cable Rack (bolt on)
- Camlock Style Load Connection Kit
- Fire Extinguisher
- Lunette Eye
- Remote Start Connections
- Spare Tire
- Traller (includes utility tool box)

## Dimensions and Weights

Overall Size, L x W x H, mm (in.): 2160 x 966 x 1571 (85 x 38 x 62)  
 Weight, wet, kg (lb.): 1480 (3263)



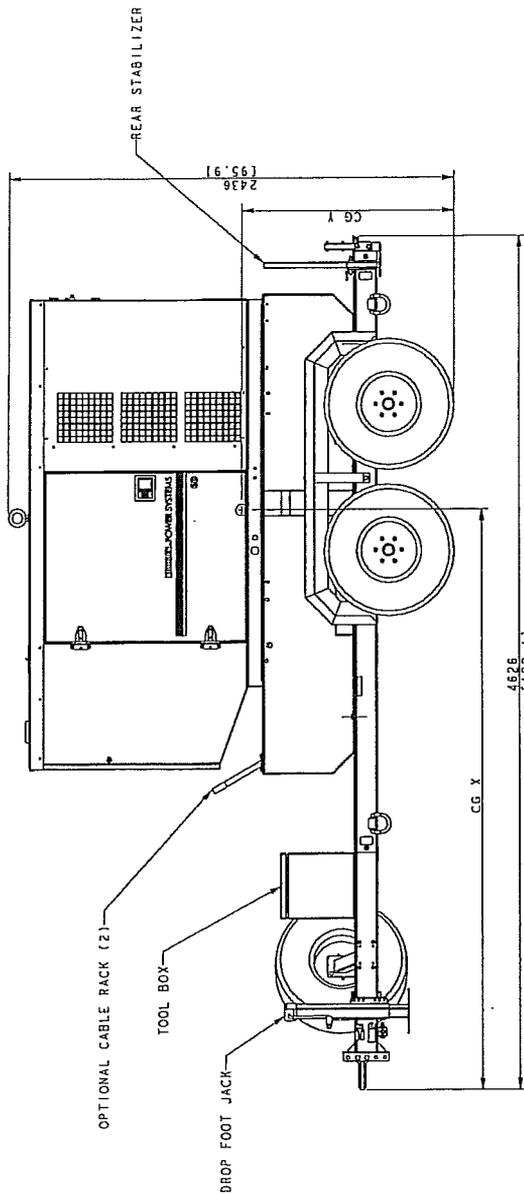
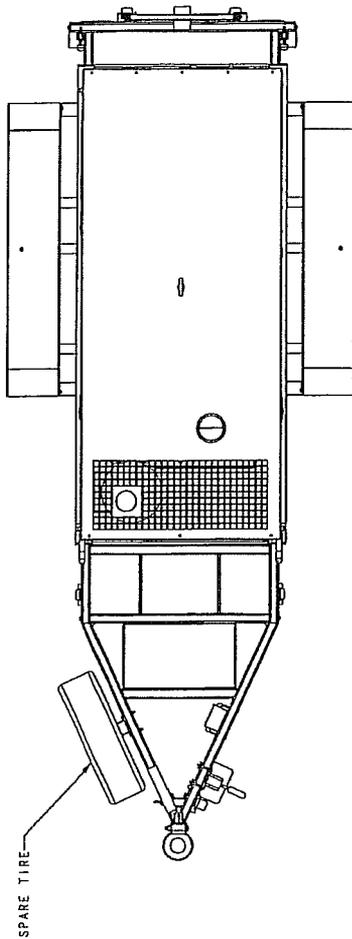
Overall Size, L x W x H, mm (in.): 4305 x 1807 x 2196 (169 x 71 x 86)  
 Weight, wet, kg (lb.): 2160 (4763)



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

**DISTRIBUTED BY:**

| CENTER OF GRAVITY DIMENSIONS |              |             |      |
|------------------------------|--------------|-------------|------|
| MODEL                        | CG X         | CG Y        | CG Z |
| 60 KW                        | 3138 [123.5] | 1159 [45.7] |      |
| 100 KW                       | 3157 [124.3] | 1170 [46.1] |      |



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| REV. | DATE    | OR CORRECTIVE DESG. SEE PART NO. FOR REVISION LEVEL | BY  | INCH DIMENSIONS UNLESS OTHERWISE INDICATED | SCALE | APPROVED | DATE | UNIT |
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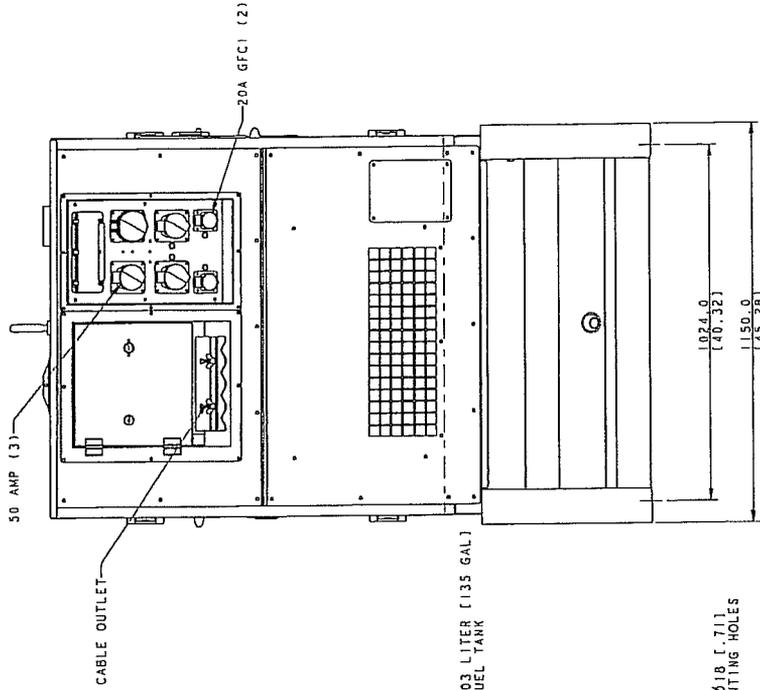
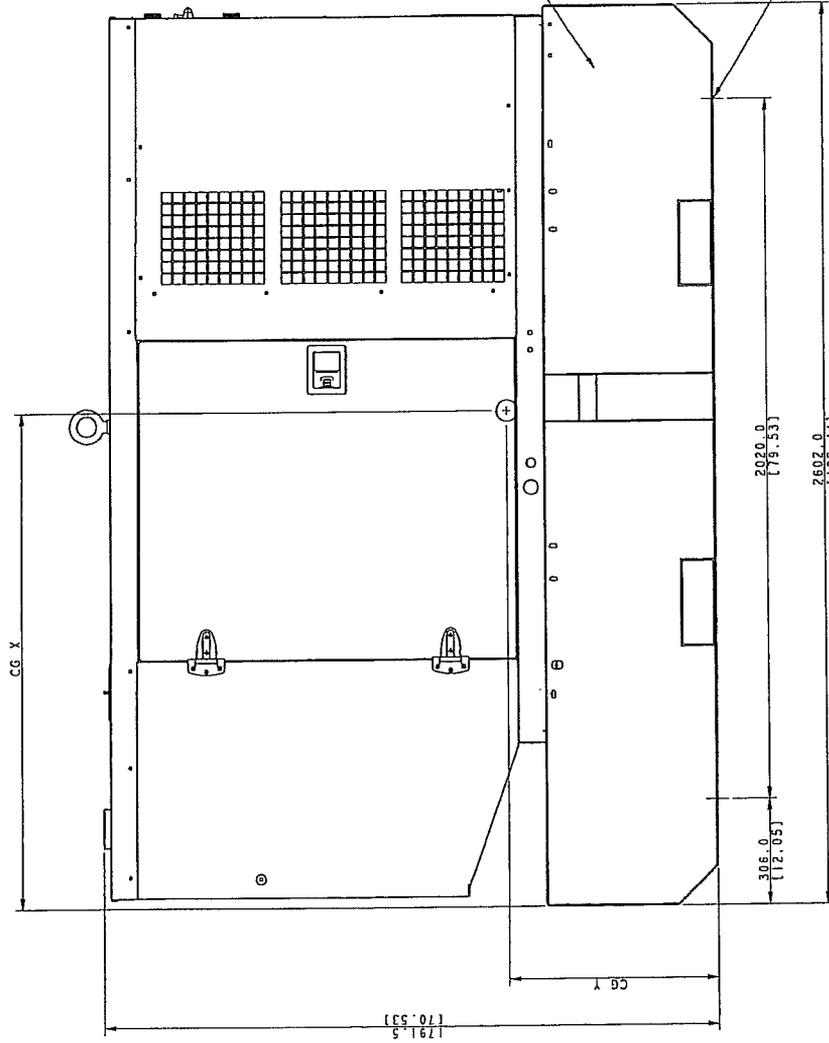
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| 5               | 9-21-12 |
| 6               | 9-21-12 |
| 7               | 9-21-12 |
| 8               | 9-21-12 |

ADV-8524

| MODEL  | WEIGHT, WET        | GVWR               |
|--------|--------------------|--------------------|
| 60 KW  | 3007 KG [6629 LBS] | 4534 KG [9995 LBS] |
| 100 KW | 3181 KG [7012 LBS] | 4534 KG [9995 LBS] |

| CENTER OF GRAVITY DIMENSIONS |              |             |
|------------------------------|--------------|-------------|
| MODEL                        | CG X         | CG Y        |
| 50 KW                        | 1427 [56.18] | 612 [24.09] |
| 100 KW                       | 1448 [56.92] | 601 [23.66] |



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| REV | DATE     | BY  | CHKD | APP'D | DESCRIPTION               |
|-----|----------|-----|------|-------|---------------------------|
| 1   | 12-21-12 | CEK | CEK  | CEK   | REVISED FOR REVISED LEVEL |
| 2   | 01-21-12 | CEK | CEK  | CEK   | REVISED FOR REVISED LEVEL |
| 3   | 02-21-12 | CEK | CEK  | CEK   | REVISED FOR REVISED LEVEL |
| 4   | 03-21-12 | CEK | CEK  | CEK   | REVISED FOR REVISED LEVEL |
| 5   | 04-21-12 | CEK | CEK  | CEK   | REVISED FOR REVISED LEVEL |
| 6   | 05-21-12 | CEK | CEK  | CEK   | REVISED FOR REVISED LEVEL |
| 7   | 06-21-12 | CEK | CEK  | CEK   | REVISED FOR REVISED LEVEL |
| 8   | 07-21-12 | CEK | CEK  | CEK   | REVISED FOR REVISED LEVEL |

| APPROVALS | DATE | INITIALS |
|-----------|------|----------|
| DESIGNER  |      |          |
| CHECKER   |      |          |
| APPROVER  |      |          |

| NO. | DATE     | DESCRIPTION              |
|-----|----------|--------------------------|
| 1   | 12-21-12 | ISSUED FOR REVISED LEVEL |
| 2   | 01-21-12 | ISSUED FOR REVISED LEVEL |
| 3   | 02-21-12 | ISSUED FOR REVISED LEVEL |
| 4   | 03-21-12 | ISSUED FOR REVISED LEVEL |
| 5   | 04-21-12 | ISSUED FOR REVISED LEVEL |
| 6   | 05-21-12 | ISSUED FOR REVISED LEVEL |
| 7   | 06-21-12 | ISSUED FOR REVISED LEVEL |
| 8   | 07-21-12 | ISSUED FOR REVISED LEVEL |

| MODEL  | WEIGHT DRY         | WEIGHT WET         |
|--------|--------------------|--------------------|
| 50 KW  | 1940 KG [4277 LBS] | 2439 KG [5379 LBS] |
| 100 KW | 2100 KG [4629 LBS] | 2674 KG [5892 LBS] |

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 PROJECTING ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.  
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**359** Generator Models

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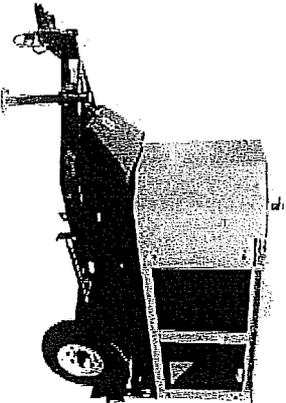
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Winco RP55 - RP55 - 45kW Industrial Towable Diesel Generator w/ Trailer

Your Online Winco Portable



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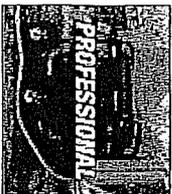
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Grade

Style

Industrial Towable Diesel Generator

and Standby Generator  
Superstore.



Run Watts

Voltage

**45,000<sup>Ⓢ</sup>**  
Rated Watts

**Multi-Voltage  
Switch**

Fuel

Engine



**Ask Our Experts**

JIM

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- Designed for long life & to maximize return on investment
  - 4.5L Turbocharged Iveco Diesel Engine
  - Provides long life, high performance, and great fuel efficiency
  - Large 110-Gallon 7-Gauge Steel Fuel Tank
  - Provides up to 50.9 hours of run time @ 1/2 load
  - 2-Wire Remote Starting Capability
  - Can be used w/ automatic transfer switch for standby applications
  - Basler DGC-2020 Digital Genset Controller w/ Digital Readouts
  - Automatic safety shutdowns provide added safety
  - Easily monitor all aspects of your genset
  - 4-Position Voltage Selector w/ Auto Shutdown & Safety Lockout
  - Terminal Block for full power connection w/ safety shut off
  - Illuminated Control Panel & Connection Box
  - Easily monitor and control your genset when it's dark
- Added Features:
- Large locking door and single point lifting eye
  - Heavy duty steel enclosure w/ powder coat paint
- DOT Approved Single-Axle Trailer w/ Electric Brakes
- Front leveling jack & rear stabilization jacks for added safety

**Don't Forget  
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