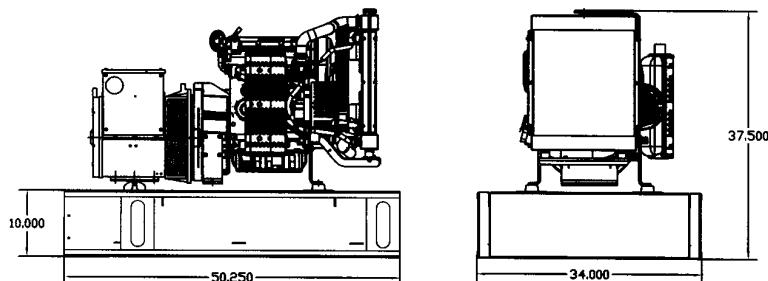


DR12K2

LIQUID COOLED DIESEL GENERATOR SET

WINPOWER

Est. 1925



Standby Rating

12kW 60Hz

Powered by ...

KOHLER

KDW1003

1028cc

Naturally Aspirated

EXPERIENCED DESIGN

- EXPERIENCE IN THE GENERATOR INDUSTRY SINCE 1925
- DESIGNED FOR LONG LIFE TO MAXIMIZE RETURN ON INVESTMENT
- WELDED AND POWDER COATED STEEL BASE
- RUBBER MOUNTED ENGINE AND GENERATOR: NO NEED FOR ISOLATION PADS AND EXTENDS THE LIFE OF BATTERIES AND HOUSING
- ELECTRICIAN FRIENDLY SINGLE COVER CONNECTION POINTS
- REACTIVE LOAD BANK TESTED
- SINGLE STEP 100% LOAD TESTED
- OPERATOR MANUAL PACKAGE INCLUDING ENGINE AND GENERATOR MANUAL
- STARTING BATTERY NOT INCLUDED (BCI 24 650 CCA)

ENGINE

- INDUSTRY LEADER OF DIESEL ENGINES WORLDWIDE
- EPA CERTIFIED; INTERIM TIER 4
- COMPLETE SERVICE NETWORK
- EFFICIENT LOW FUEL CONSUMPTION DESIGN

DSE 7110 CONTROLLER

- GENERATOR PROTECTION AND METERING
- EVENT FAULT LOG RECORDING
- 7 CONFIGURABLE INPUTS
- 8 CONFIGURABLE OUTPUTS
- GLOW PLUGS AND STARTER SOLENOID CONTROLS
- OPTIONAL DSE 3110 AND DSE 7310 CONTROLLERS PROVIDE FLEXIBILITY FOR ANY APPLICATION

GENERATOR

- STANDBY RATED
- BRUSHLESS ROTATING FIELD
- WOUND 2/3 PITCH FOR LOW HARMONIC DISTORTION
- CLASS H WINDING INSULATION FOR PEAK PROTECTION
- MEETS BS EN 60034, BS5000, VDE 0530
- NEMA MG1-32, ICE34, CSA C22.2-100, AS1359
- AS480 AUTOMATIC VOLTAGE REGULATION STANDARD STEADY STATE VOLTAGE +/- 1%
- OPTIONAL EXCITATION BOOST SYSTEM (EBS) SENSES DROPS IN VOLTAGE FROM LARGE IMPACT LIKE MOTOR STARTING. THE EBS ENGAGES THE EXCITATION BOOST GENERATOR FEEDING ADDITIONAL POWER TO THE GENERATORS EXCITATION SYSTEM SUPPORTING THE LOAD

APPLICATION & ENGINEERING DATA



ENGINE SPECIFICATIONS

| | |
|---|--------------------------|
| MAKE | KOHLER |
| MODEL | KDW1003 |
| TYPE | DIESEL |
| GROSS HORSEPOWER @ 3600 RPM-STANDBY | 26.1 HP |
| INDIRECT FUEL INJECTION SYSTEM | UNIT INJECTORS |
| SPEED GOVERNOR | MECHANICAL |
| CYLINDERS | 3 |
| TOTAL DISPLACEMENT | 1028 cc |
| BORE x STROKE | 75 mm/77.6 mm |
| COMPRESSION | 22.8:1 |
| ASPIRATION | NATURAL |
| COMBUSTION AIR REQUIREMENT | 65 CFM |
| ENGINE RADIATOR CAPACITY | 3.0 QTS |
| TOTAL COOLING CAPACITY | 2.5 GAL |
| COOLING AIR REQUIREMENT | 2225 CFM |
| HOUSING | SAE 5 |
| FLYWHEEL | 6.5 inches |
| ROTATION | CCW |
| LUBE OIL SPEC | SEE ENGINE MANUAL |
| OIL & FILTER REPLACEMENT | 250 HRS |
| LUBE OIL CAPACITY | 2.5 QTS |
| FUEL SPEC | ASTM D-975 1D/2D, EN 590 |
| EXHAUST OUTLET SIZE @ MUFFLER | 1.5 inches |
| ELECTRICAL SYSTEM (NEGATIVE GROUND) | 12 VDC |
| ALTERNATOR | 45 AMPS |
| BATTERY (NOT INCLUDED BCI 24) | MINIMUM 650 CCA |

ALTERNATOR SPECIFICATIONS

| | |
|-----------------------------------|-------------------------------|
| RATING | (125/40°C) STANDBY |
| TYPE | 2 POLE – ROTATING FIELD |
| SPEED | 3600 RPM |
| INSULATION SYSTEM | CLASS H |
| SINGLE PHASE | 4 LEAD |
| THREE PHASE | 12 LEAD |
| STATOR WINDINGS | DOUBLE LAYER CONCENTRIC |
| PITCH | 2/3 |
| WAVEFORM DISTORTION-NO LOAD | <1.5% |
| TELEPHONE INTERFERENCE | <2.0% |
| COUPLING | FLEXIBLE DISC |
| BEARINGS (MAINTENANCE FREE) | 1 |
| VOLTAGE CONTROL | (AS480 STANDARD) SELF EXCITED |
| REGULATION | +/- 1.0% |
| SINGLE PHASE POWER FACTOR | 1.0 |
| THREE PHASE POWER FACTOR | 0.8 |

If the information that you require is not shown, please contact your dealer.

GENERATOR CONTROLLER

General

Deep Sea digital genset controllers are highly advanced microprocessor controllers. Each model is designed to stand up to the harshest conditions providing timely performance information and safety shutdowns. With so many options it is easy to find a controller flexible enough to meet your application. Some options may require activation through the free interface software or additional accessories. The DSE 7110 is standard.

| Feature | DSE 3110 | DSE 7110 | DSE7310 |
|--|----------------|----------|---------------|
| Engine Display/Protection | | | |
| Engine RPM | X | X | X |
| Low Oil Pressure | Shutdown Only | X | X |
| High Coolant Temperature | Shutdown Only | X | X |
| Low Coolant Level | Optional | Optional | Optional |
| Overspeed | X | X | X |
| Underspeed | X | X | X |
| Overcrank | X | X | X |
| Charging Alternator Failure | Optional | X | X |
| CAN ECU Shutdown | X | X | X |
| Genset Display/Protection | | | |
| Voltage (L-N) | One L-N or L-L | X | X |
| Voltage (L-L) | One L-N or L-L | X | X |
| Overvoltage | X | X | X |
| Undervoltage | X | X | X |
| Frequency | X | X | X |
| Overfrequency | X | X | X |
| Underfrequency | X | X | X |
| Phase Imbalance | - | - | Disabled |
| Amp Display/Shutdown | - | X | X |
| kW, kVa, kVAr, pf Display | - | - | X |
| kWh, kVAh, kVARh Display | - | - | X |
| Generator Phase Sequence | - | - | X |
| Earth Current | - | - | Optional |
| Additional Displays/Protections | | | |
| Emergency Stop | X | X | X |
| Fuel Leak/Sender Failure | Optional | X | X |
| High Fuel Level | - | Optional | Optional |
| Low Fuel Level | Optional | X | X |
| Fuel Level | - | X | X |
| Battery Voltage | - | X | X |
| Battery Over/Under Voltage | - | X | X |
| Battery Charger Failure | - | Optional | Optional |
| Communications | | | |
| USB Connectable | X | X | X |
| RS232/RS485 | - | - | X |
| NFPA Annunciator | - | - | 10xDSE2548 |
| Remote Display Panel | - | - | 3xDSE2510 |
| Ethernet/Modem | - | - | Optional |
| Additional Features | | | |
| Audible Alarm | - | - | X |
| Engine Exerciser | - | X | X |
| Maintenance Interval Timer | - | 1 Event | 3 Event |
| Load Shedding/Dummy | - | - | 5 Step |
| Configurable Inputs | 6 | 7 | 9-24w/DSE2130 |
| Configurable Outputs | 4 | 8 | 6-80w/DSE2751 |
| Event Log | - | 5 | 250 |
| Alternative Configurations | 1 | 1 | 3 |
| UL/CSA Listed | X | X | X |

| Electrical Output 12kW Standby | | | | |
|--------------------------------|----|-----|---------|---------|
| Output Voltage – 60Hz | kW | kVA | Amperes | CB Size |
| 120/240, 1-phase, 1.0 pf | 12 | 12 | 50 | 50 |
| 120/208, 3-phase, 0.8 pf | 12 | 15 | 42 | 40 |
| 120/240, 3-phase, 0.8 pf | 12 | 15 | 36 | 35 |
| 277/480, 3-phase, 0.8 pf | 12 | 15 | 18 | 20 |

Consult factory for switchable voltage & 50Hz

Fuel Consumption

100% Load 1.27 Gallons/Hr
 75% Load 0.97 Gallons/Hr
 50% Load 0.79 Gallons/Hr

Derating Factors

Temperatures > 104°F 3% per 10°F
 Altitude 3% per 1000 ft
 Prime Power 10%

NFPA 110 Level 1 Package Option

This option provides a higher state of readiness in accordance with NFPA 110. Option includes a dual rate battery maintenance charger with failure indication, 16-light remote annunciator, low coolant level indication, block heater upgrade that maintains 100°-120°F and enhanced genset controller pre-alarm settings

Engine Block Heater Specifications

Volts – 120
 Watts – 1000
 Thermostat On/Off - 100°/120°F

Limited Warranty

Winpower warrants its product from material defects for a period of one year or 1000 hrs. Kohler warrants the engine for 2 years/ 2000 hours with extended major component warranty for 5 years/3000 hours. Contact Winpower for copies of full warranty statements.

OPTIONS AND ACCESSORIES

Optional Fuel Accessories

- 32 gal (Composite)
- UL142 Tank (Specify run time)
- DOT Trailer w/Integrated Tank

Battery Chargers

- 2 amp (Standard)
- 3.5 amp
- 6 amp
- 6 amp w/Fail Contact
- 10 amp
- 10 amp w/Fail Contact

Enclosure Options

- POWR-PAK (Open skid, no enclosure)
- SOUND-PAK

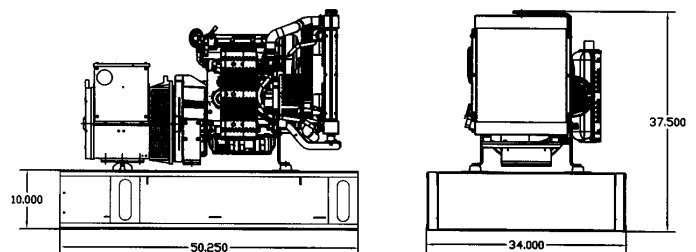
Controller Options

- DSE 3110
- DSE 7110 (Standard)
- DSE 7310
- NFPA 110 Level 1
- 16 Light Remote Annunciator
- Remote Display Panel (DSE 2510)
- Ethernet
- DSE 2130 Input Expansion
- DSE 2751 Output Expansion

Generator Accessories

- Anti-condensation Heater
- Excitation Boost System
- Oversized Generator
- 12 Lead (Double Delta) Single Phase

Distributed by



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE