





## Application Data

### Operation Requirements

Air Requirements	50 Hz
Radiator-cooled cooling air, m <sup>3</sup> /min (scfm)	306 (10807)
Combustion air, m <sup>3</sup> /min (ft <sup>3</sup> /min) - Air density = 1.20 kg/m <sup>3</sup> (0.075 lb/ft <sup>3</sup> )	11.8 (417)
Fuel Consumption	50 Hz
Diesel, Lph (gph) at % load	
100% (Standby)	50 (13.2)
Diesel, Lph (gph) at % load	
100% (Prime)	45 (11.9)
75%	34.1 (9)
50%	23.1 (6.1)

## Controller



### Decision-Maker™ 1000

#### Automation

- Test LEDs
- Voltage and speed stabilization

#### Engine Parameters

- Engine speed indication (with LCD message)
- Battery voltage indication (with LCD message)
- Elapsed hour meter (with LCD message)
- Fuel solenoid control
- Starter control

#### Measurements

- Frequency, Hz (with LCD message)

#### Operation and/or Safety Lights

- Oil pressure fault
- Water temperature fault
- Fail to start fault
- Overspeed fault (>60 kVA)
- Set ready for load
- Charging alternator fault
- General alarm
- General fault
- Panel lamp
- Emergency stop fault

#### Safety Devices

- Overspeed fault
- Automatic standby

#### Miscellaneous

- Fault reset
- Three-phase with or without neutral, two-phase, or single-phase use



### Decision-Maker™ 4000

#### Standard Features

- Large LCD display panel
- Unique control wheel for system access
- User buttons for start, stop, menu, and escape
- Emergency stop button
- On/off key switch
- Panel-mounted battery fuse
- Panel-mounted USB ports for PC access and software upgrades
- Password-protected access to control parameters
- Upgradeable software for future enhancements
- Easy upgrade from Decision-Maker™ 1000

#### LCD Panel Features

- 600 x 800 resolution
- Multiple lines of text or graphic display
- Icons for quick identification of system status
- Six languages: Chinese, English, French, German, Portuguese, and Spanish

#### Communication Features

- Engine communication via CANbus
- Modbus communication via RS-485 or ethernet
- PC and flash drive connections via USB

#### Functions

- View and adjust system operation parameters
- View system faults

#### Viewable/Selectable Parameters (may require optional module)

- Voltage: phase-to-neutral, total voltage
- Current
- Frequency
- Power (active/reactive/apparent)
- Power factor
- Engine speed
- Oil pressure
- Coolant temperature
- Battery voltage
- Fuel level (%)
- Time delays

#### Viewable Faults (over 60 individual faults are monitored) including:

- Alternator protection (if equipped)
- Circuit breaker and ground fault protection
- Communication and engine ECM monitoring
- Cooling air monitoring
- Electrical charging system
- Engine cooling system
- Engine lube system
- Fuel system
- Generator set status

# KOHLER® Power Systems

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## Enclosed Unit

- Sound Enclosure M226, 50 Hz, 68.6 dB(A) @ 7 m (23 ft.), Standby (with enclosed critical silencer)

## Open Unit

- Exhaust Silencer, Critical 40 dB(A) Reduction
- Exhaust Silencer, Residential 29 dB(A) Reduction
- Flexible Exhaust Connector
- Protection Mesh for Exhaust Parts

## Cooling System

- Block Heater  
[recommended for ambient temperatures below 0°C (32°F)]
- Radiator Core Guard

## Decision-Maker™ 1000 Controller

- Alarm Horn
- Analog Indicator
- Differential Protection with Time and Sensitivity Adjustment
- Differential Triggering Fault
- External ATS Position
- External Starting Order
- Line Voltages, Volts Indicator
- Overload or Short-Circuit Fault
- Permanent Insulation Controller
- Phase Currents, Amps Indicator
- Plug Preheating
- Plug Preheating Control
- Remote Start Capability
- Single Voltages, Volts Indicator
- Utility Sensing, 3-Phase
- Water Preheating Control

## Decision-Maker™ 4000 Controller

- Alternator Protection
- Audible Alarm Module
- Five Expandable Modules with Four Inputs/Six Outputs Each
- Network Modules (RTC and GSM modems and ethernet router)
- NFPA-110 Module
- Remote Annunciator
- Voltage/Speed Adjustment Module
- WinTelys Software

## Fuel System

- Automatic Fuel Tank Fill Kit
- Subbase Fuel Tank with Secondary Containment Basin
- Subbase Fuel Tank Leak Alarm
- Water Separator Fuel Filter

## Electrical System

- Battery Charger, Equalize/Float Type
- Battery Isolator Switch

## Engine and Alternator

- Alternator Strip Heater
- Air Cleaner, Heavy Duty (with air restriction indicator)
- Droop Kit with 3-Function Voltage Regulator
- Lube Oil Drain Pump
- PMG Alternator and Voltage Regulator
- Tropical Heavy-Duty Alternator Insulation

## Miscellaneous Accessories

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

## Dimensions and Weights

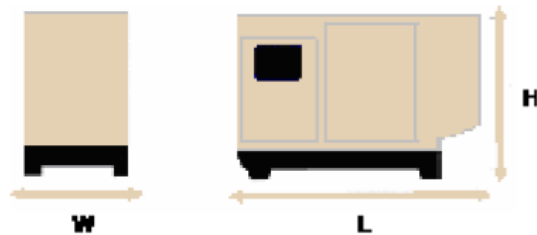
### Open Model



Overall Size, L×W×H mm (in): 2420×1114×1480 (95×44×58)

Weight, wet, kg (lb.): 2053 (4526)

### With Available Enclosure Accessory



Overall Size, L×W×H mm (in): 3508×1200×1830 (138×47×72)

Weight, wet, kg (lb.): 2663 (5871)

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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