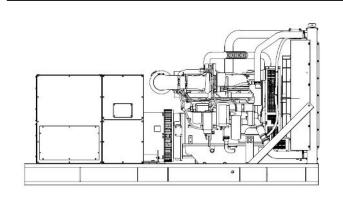
# **KOHLER**<sub>®</sub>



### **Standard Features**

• Kohler Co. provides one-source responsibility for the generating system and accessories.

• Approved for use with certified renewable Hydrotreated Vegetable Oil (HVO) / Renewable Diesel (RD) fuels compliant with EN15940/ASTM D975.

• The generator set and its components are prototype-tested, factory-built, and production-tested.

- The 60 Hz generator set offers a UL 2200 listings.
- The generator set accepts rated load in one step.
- The 60 Hz emergency generator set meets NFPA 110, Level

1, when equipped with the necessary accessories and installed per NFPA standards.

• A one-year limited warranty covers all systems and components. Two-and five-year extended warranties are also available.

- Tier 3 EPA-certified for Stationary Emergency Applications
- Alternator Protection
- Battery Rack and Cables
- Customer Connection (standard with Decision-Maker  $\square$  6000 controller only)
- Local Emergency Stop Switch
- Oil Drain Extension
- Operation and Installation Literature

### **Alternator Features**

- The pilot-excited, permanent-magnet (PM) alternator provides superior short-circuit capability.
- The brushless, rotating-field alternator has broad range reconnectability.

### **Other Features**

• Kohler designed controllers for guaranteed system integration and remote communication.

• The low coolant level shutdown prevents overheating (standard on radiator models only).Integral vibration isolation eliminates the need for under-unit vibration spring isolators.

• An electronic, isochronous governor delivers precise frequency regulation.

• Mount up to four circuit breakers to allow circuit protection of selected priority loads.

### **Generator Set Rating**

				Standby 130C	Rise Ratings
Alternator	Voltage	Ph	Hz	kW/kVA	Amps
4M4019	120/208	3	60	350/438	1214

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.

# Alternator Specifications

Specifications	Alternator
Alternator manufacturer	Kohler
Туре	4-Pole, Rotating-Field
Exciter type	Brushless, Permanent-Magnet, Pilot Exciter
Leads, quantity	12, Reconnectable
Voltage regulator	Solid State, Volts/Hz
Insulation	NEMA MG1
Insulation: Material	Class H, Synthetic, Nonhydroscopic
Insulation: Temperature Rise	130 ° C, 150 ° C Standby
Coupling	Flexible Disc
Amortisseur windings	Full
Rotor balancing (50Hz)	125%
Rotor balancing (60Hz)	125%
Voltage regulation, no-load to full-load RMS	Controller Dependent
One-Step Load Acceptance	100% of rating
Unbalanced load capability	100% of Rated Standby Current

• NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.

• Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.

• Sustained short-circuit current enabling down stream circuit breakers to trip without collapsing the alternator field.

• Self-ventilated and dripproof construction.

• Superior voltage waveform from a two-thirds pitch stator and skewed rotor.

Brushless alternator with brushless pilot exciter for excellent load response.

### Engine

# **Engine Specification**

Engine Manufacturer	John Deere
Engine Model	6135HFG84B
Engine: type	Turbocharged, Charge Air-Cooled
Cylinder arrangement	6, Inline
Displacement, L (cu. in.)	13.5 (824)
Bore and stroke, mm (in.)	132 x 165 (5.2 x 6.5)
Compression ratio	16.0:1
Piston speed, m/min. (ft./min.)	594 (1950)
Rated rpm	1800
Max. power at rated rpm, kWm (BHP)	401 (538)
Crankshaft material	Forged Steel
Valve (exhaust) material Intake	Nickel-Chromium Head
Valve (exhaust) material	Chromium-Silicone Stem
Governor: type, make/model	JDEC Electronic L15
Frequency regulation, no-load to-full load	Isochronous
Frequency regulation, steady state	± 0.25%
Frequency	Fixed
Air cleaner type, all models	Dry

# Model: 350REOZJD, continued

# Exhaust

Ex	ha	ust	S	/stem

Exhaust Manifold Type	Dry
Exhaust flow at rated kW, m3/min. (cfm)	68 (2387)
Exhaust temperature at rated kW, dry exhaust, $^{\circ}$ C ( $^{\circ}$ F)	547 (1017)
Maximum allowable back pressure, kPa (in. Hg)	Min. 4 (1.2) Max. 7.5 (2.2)
Exh. outlet size at eng. hookup, mm (in.)	See ADV Drawing

# **Engine Electrical**

Engine	Electrical	System
--------	------------	--------

Battery charging alternator: Ground (negative/positive)	Negative
Battery charging alternator: Volts (DC)	24
Battery charging alternator: Ampere rating	60
Starter motor rated voltage (DC)	24
Battery, recommended cold cranking amps (CCA): Qty., CCA rating each	Two, 925
Battery voltage (DC)	12

### Fuel

Fuel System		
Fuel type	Diesel	
Fuel supply line, min. ID, mm (in.)	13 (0.50)	
Fuel return line, min. ID, mm (in.)	10 (0.38)	
Max. lift, fuel pump: type, m (ft.)	Electronic 2.1 (6.8)	
Max. fuel flow, Lph (gph)	180.6 (47.7)	
Max. return line restriction, kPa (in. Hg)	35 (10.3)	
Fuel prime pump	Electronic	
Fuel Filter Secondary	2 Microns @ 98% Efficiency	
Fuel Filter Primary	10 Microns	
Fuel Filter Water Separator	Yes	
Recommended fuel	#2 Diesel/HVO/RD	

### Lubrication

### Lubrication System

Туре	Full Pressure
Oil pan capacity, L (qt.)	40.0 (42.3)
Oil pan capacity with filter, L (qt.)	42.0 (44.4)
Oil filter: quantity, type	1, Cartridge
Oil cooler	Water-Cooled

# Model: 350REOZJD, continued

### Cooling

Radiator System	
Ambient temperature, °C (°F)	50 (122)
Engine jacket water capacity, L (gal.)	18 (4.8)
Radiator system capacity, including engine, L (gal.)	67.2 (17.8)
Engine jacket water flow, Lpm (gpm)	400 (106)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	175 (9661)
Heat rejected to charge air cooling water at rated kW, dry exhaust, Kw Btu/min.	75 (4269)
Water pump type	Centrifugal
Fan diameter, including blades, mm (in.)	965 (38)
Fan, kWm (HP)	18 (24)
Max. restriction of cooling air, intake and discharge side of radiator, $\ensuremath{kPA}$ (in. H20)	A 0.125 (0.5)

\* Enclosure with internal silencer reduces ambient temperature capability by 5 ° C (9 ° F).

# **Operation Requirements**

# Air Requirements

Radiator-cooled cooling air, m3/min. (scfm) * Cooling air required for generator set when equipped with city water cooling or remote radiator, based on 14 ° C (25 ° F) rise, m3/min. rise and ambient temp. of 29 ° C (85 ° F) m3/min. (cfm)	435 (15400) 285 (10067)
Combustion air, m3/min. (cfm)	25 (883)
Heat rejected to ambient air: Engine, kW (Btu/min.)	43 (2448)
Heat rejected to ambient air: Alternator, kW (Btu/min.)	36.6 (2082)
*Air density = 1.20 kg/m3 (0.075 lbm/ft3)	

# **Fuel Consumption**

	Rating
Standby Fuel Consumption at 100% load	100.3 Lph (26.5 gph)
Standby Fuel Consumption at 75% load	80.3 Lph (21.2 gph)
Standby Fuel Consumption at 50% load	56.7 (15.0)
Standby Fuel Consumption at 25% load	29.5 (7.8)
Continuous Fuel Consumption at 0% load	Fuel consumption is up to 4% higher when using HVO/RD than #2 ULSD.

# **Dimensions and Weights**

Dim Weight Spec	Dim Weight Value		
Fuel	Diesel		
Engine Manufacturer	John Deere		
Overall Size, L x W x H, mm (in.):	3630 x 1425 x 1936 (142.9 x 56.1 x 76.2)		
Weight (radiator model), wet, kg (lb.):	3883 (8560)		

# KOHLER.

### **Generator Set Controller**



**APM402** 

### Kohler<sup>®</sup> APM402 Controller

### **General Description and Function**

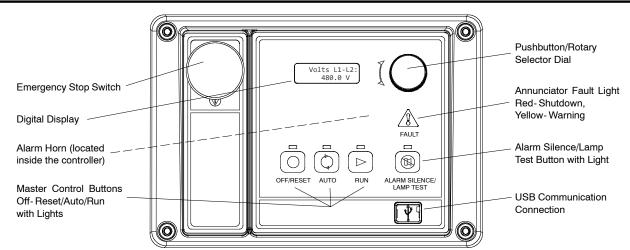
The APM402 generator set controller provides advanced control, system monitoring, and system diagnostics for optimum performance.

The APM402 controller meets NFPA 110, Level 1 when equipped with the necessary accessories and installed per NFPA standards.

The APM402 controller uses a patented hybrid voltage regulator and unique software logic to manage alternator thermal overload protection features normally requiring additional hardware. Additional features include:

- A digital display and pushbutton/rotary selector dial provide easy local access to data.
- Measurements selectable in metric or English units.
- The controller can communicate directly with a personal computer via a network or serial configuration using SiteTech<sup>™</sup> or Monitor III software.
- The controller supports Modbus<sup>®</sup> protocol. Use with serial bus or Ethernet networks. (Ethernet requires an external Modbus<sup>®</sup>/Ethernet converter module.)
- Scrolling display shows critical data at a glance.
- Digital display of power metering (kW and kVA).
- Integrated hybrid voltage regulator providing ±0.5% regulation.
- Built-in alternator thermal overload protection.

Modbus® is a registered trademark of Schneider Electric.



### **User Interface Controls and Components**

- Emergency stop switch •
- Backlit LCD digital display with two lines of 12 characters (see User Interface Displays for menus)
- Alarm horn indicates generator set shutdown and warning faults
- Environmentally sealed membrane keypad with three master control
- buttons with lights
- Off/Reset (red)
- Auto (green)
- Run (yellow)
- Pushbutton/rotary selector dial for menu navigation
- Rotate dial to access main menus
- 0
- Push dial and rotate to access sub menus Press dial for 3 seconds to return to top of main menu

- Annunciator fault light
  System shutdown (red)
  System warning (yellow)
  Alarm silence/lamp test button
- Alarm silence Lamp test
- USB and RS-485 connections Allows software upgrades
- Provides access for diagnostics
- PC communication using SiteTech™ or Monitor III software
- Dedicated user inputs
  - Remote emergency stop switch Remote 2-wire start for transfer switch
- Auxiliary shutdown
- Integrated hybrid voltage regulator .
- Auto-resettable circuit protection mounted on circuit board.
- One relay output standard. Optional five relay output available.
- One analog and three digital inputs standard. Optional two inputs available.

### **NFPA 110 Requirements**

In order to meet NFPA 110, Level 1 requirements, the generator set controller monitors the engine/generator functions/faults shown below.

- Engine functions:
- Overcrank
- Low coolant temperature warning High coolant temperature warning 0
- 0
- High coolant temperature shutdown
- Low oil pressure shutdown
- 0 Low oil pressure warning
- 0 High engine speed
- 0 Low fuel (level or pressure) \* Low coolant level
- EPS supplying load
- High battery voltage
- Low battery voltage
- General functions:
- Master switch not in auto Battery charger fault \* 0
- Lamp test 0
- Contacts for local and remote common alarm Audible alarm silence button 0
- 0
- Remote emergency stop ' 0
- \* Function requires optional input sensors or kits and is engine dependent, see Controller Displays as Provided by the Engine ECM.

### **User Interface Displays**

The listing below has • denoting main menus and o denoting sub-menus.

- Overview
  - Software version
  - Active shutdowns and warnings (if any are present) 0
  - Engine run time, total hours Average voltage line-to-line Frequency 0

  - 0 0
  - 0
  - Average current Coolant temperature Fuel level or pressure \* 0
  - Oil pressure 0
  - 0 Battery voltage
  - Engine Metering
  - Engine speed 0
  - Oil pressure 0
  - Oll pressure
    Coolant temperature
    Battery voltage
    Generator Metering
    Total power, VA
    Total power, W

- 0
- Rated power, % Voltage, L-L and L-N for all phases 0
- Current, L1, L2, L3
- Frequency GenSet Information
- Generator set model number 0
- 0
- Generator set serial number Controller serial number
- GenSet Run Time
- 0
- Engine run time, total hours Engine loaded, hours Number of engine starts Total energy, kWh 0
- 0
- GenSet System
- System voltage 0
- System frequency, 50 or 60 Hz 0
- System phase, single or three (wye or delta) Power rating, kW
- Amp rating
- 0
- Power type, standby or prime Measurement units, metric or English (user selectable)
- Alarm silence, always or auto only (NFPA 110)

Event history (stores up to 1000 system events) Selector Switch (requires initial activation by SiteTech<sup>™</sup>)

- Manual speed adjust
- GenSet Calibration

Input settings and status

Input settings and status

Output settings and status

- Voltage, L- L and L- N for all phases Current, L1, L2, L3 0
- Reset calibration
- Voltage Regulation
- Adjust voltage, ±10% Digital Inputs

Digital Outputs

Analog Inputs

Event Log

G6-161 3/21c Page 2

### **Controller Features**

- AC Output Voltage Regulator Adjustment. The voltage adjustment provides a maximum of ±10% of the system voltage.
- Alarm Silence. The controller can be set up to silence the alarm horn only when in the AUTO mode for NFPA-110 application or Always for user convenience.
- Alternator Protection. The controller provides generator set overload and short circuit protection matched to each alternator for the particular voltage/phase configuration.
- Automatic Restart. The controller automatic restart feature initiates the start routine and recrank after a failed start attempt.
- Common Failure Relay. This relay is integrated on the controller circuit board. Contacts are rated 2 amps at 32 VDC or 0.5 amp at 120 VAC.
- Communication. Controller communication is available.
- Cyclic Cranking. The controller has programmable cyclic cranking.
- ECM Diagnostics. The controller displays engine ECM fault code descriptions to help in engine troubleshooting.
- Engine Start Aid. The starting aid feature provides control for an optional engine starting aid.
- Event Logging. The controller keeps a record (up to 1000 entries) for warning and shutdown faults. This fault information becomes a stored record of system events and can be reset.
- Historical Data Logging. Total number of generator set successful starts is recorded and displayed.
- Integrated Hybrid Voltage Regulator. The voltage regulator provides ±0.5% no-load to full-load regulation with three-phase sensing.
- Lamp Test. Press the alarm silence/lamp test button to verify functionality of the indicator lights.
- LCD Display. Adjustable contrast for improving visibility.
- Measurement Units. The controller provides selection of English or metric displays.
- Power Metering. Controller digital display provides kW and kVA.
- Programming Access (USB). Provides software upgrades and diagnostics.
- Remote Reset. The remote reset function resets faults and allows restarting of the generator set without going to the master control switch off/reset position.
- Remote Monitoring Panel. The controller is compatible with the Kohler® Remote Serial Annunciator.
- Run Time Hourmeter. The generator set run time is displayed.
- Time Delay Engine Cooldown (TDEC). The TDEC provides a time delay before the generator set shuts down.
- Time Delay Engine Start (TDES). The TDES provides a time delay before the generator set starts.
- Voltage Selection Menu. This menu provides the capability of quickly switching controller voltage calibrations. Requires initial activation using SiteTech<sup>™</sup> software. NOTE: Generator set output leads require voltage reconnection.

#### **Controller Functions**

The following chart shows which functions cause a warning or shutdown. All functions are available as relay outputs.

Warning causes the fault light to show yellow and sounds the alarm horn signaling an impending problem.

Shutdown causes the fault light to show red, sounds the alarm horn, and stops the generator set.

	Warning Function	Shutdown Function
Engine Functions		
Critically high fuel level *	0	
ECM communication loss		•
ECM diagnostics	•	•
Engine over speed		●†
Engine start aid active		
Engine under speed		•
Fuel tank leak *	0	0
High battery voltage	•	
High coolant temperature	•	●†
High fuel level *	0	
Low battery voltage	•	
Low coolant level		•
Low coolant temperature	•	
Low cranking voltage	•	
Low engine oil level *	0	0
Low fuel level (diesel models) *	0	0
Low fuel pressure (gas models) *	0	
Low oil pressure	•	•†
No coolant temperature signal		•
No oil pressure signal		•
Overcrank		•†
Speed sensor fault	•	
General Functions		
Alarm horn silenced		
Analog inputs	0	0
Battery charger fault *	•	
Chicago code active *		
Common fault (includes †)		•
Common warning	•	
Digital inputs	0	0
Emergency stop		•†
Engine cooldown (delay) active		
Engine start delay active		
Engine started		
Engine stopped		
EPS supplying load		
Generator running		
Input/output communication loss	•	
Internal failure		•
Master switch not in auto	•	
NFPA 110 alarm active		
Remote start		
System ready		
Generator Functions		
AC sensing loss	•	•
Alternator protection		•
Ground fault input *	•	
kW overload		•
Locked rotor		•
Overfrequency		•
Overvoltage (each phase)		•
Underfrequency		•
Undervoltage (each phase)		•
·······		

Standard function

Available user function

 Function requires optional input sensors or kits and is engine dependent; see Controller Displays as Provided by the Engine ECM.

† Items included with common fault shutdown

# **KOHLER**

KOHLER CO., Kohler, Wisconsin 53044 USA Phone 920-457-4441, Fax 920-459-1646 For the nearest sales and service outlet in the US and Canada, phone 1-800-544-2444 KOHLERPower.com

	Engine Manufacturer (and Model)							
Kohler Diesel (KDI M, TM*)	Kohler Diesel (KDI TCR)	Kohler Gas (KG2204, KG2204T)	Kohler Gas (KG6208, KG6208T, KG10V08, KG10V08T)	GM and PSI/Doosan	John Deere	Volvo		
						D		
	D		D	D	D	D		
		D	D	D	D	D		
	D	C/S/D	C/S/D	C/S/D	C/S/D	C/S/D		
						D		
S		S/D	S	S				
C/S/D	C/S/D	C/S/D	C/S/D	C/S/D	C/S/D	C/S/D		
	D		C/S/D	C/S/D	C/S†	C/S/D		
	D				S/D	S		
			S†	S†	S†	S†		
	C/S/D	D	C/S/D	C/S/D	C/S/D	C/S/D		
		S				SD		
	(KDI M, TM*)	Kohler Diesel (KDI M, TM*)Kohler Diesel (KDI TCR)DDDDSC/S/DC/S/DC/S/DDD	Kohler Diesel (KDI M, TM*)  Kohler Diesel (KDI TCR)  Kohler Gas (KG2204, KG2204T)    D  D    D  D    S  S/D    C/S/D  C/S/D    D  D	Kohler Diesel (KDI M, TM*)Kohler Diesel (KDI TCR)Kohler Gas (KG2204, (KG2204, KG204T)Kohler Gas (KG6208T, KG10V08, KG10V08T)DDDDDDDDDDC/S/DC/S/DSS/DSC/S/DC/S/DC/S/DDDSC/S/DC/S/DC/S/DDDSC/S/DC/S/DC/S/DDDC/S/DDDC/S/D	Kohler Diesel (KDI M, TM*)Kohler Diesel (KDI TCR)Kohler Gas (KG2204, KG2204T)Kohler Gas (KG2204, KG10V08, KG10V08T)GM and PSI/DoosanDDDDDDDDDDC/S/DC/S/DSS/DSSC/S/DC/S/DC/S/DC/S/DDDSSC/S/DC/S/DC/S/DC/S/DDDSSC/S/DC/S/DC/S/DC/S/DDDC/S/DC/S/DC/S/DC/S/DC/S/DC/S/DDDDC/S/DDDC/S/DC/S/DDDC/S/DC/S/DDDC/S/DC/S/DDDC/S/DC/S/D	Kohler Diesel (KDI M, TM*)Kohler Diesel (KDI TCR)Kohler Gas (KG2204, KG2204T)Kohler Gas (KG2204, KG10V08, KG10V08T)GM and PSI/DoosanJohn DeereDDDDDDDDDDDDC/S/DC/S/DC/S/DSS/DSSSC/S/DC/S/DC/S/DC/S/DC/S/DDDSSSC/S/DC/S/DC/S/DC/S/DC/S/DDDSSSC/S/DC/S/DC/S/DC/S/DC/S/DDDSSSC/S/DC/S/DC/S/DC/S/DC/S/DDDS†S†S†C/S/DC/S/DDC/S/DC/S/D		

\* Electronic governor and ECM are optional on KDI M and TM engines.

† Controller uses local analog input to obtain this information.

Note: REOZMD/ROZMC (Mitsubishi engines) have an ECM but do not send signals to the generator set controller.

Note: See the generator set specification sheet for engine model identification.

#### **Controller Specifications**

- Power source with circuit protection: 12- or 24-volt DC
- Power drain: 200 milliamps at 12 VDC or 100 milliamps at 24 VDC
- Humidity range: 5% to 95% noncondensing
- Operating temperature range: -40°C to +70°C (-40°F to +158°F) •
- Storage temperature range: -40°C to +85°C (-40°F to +185°F) .
- Standards:
- **CE** Directive 0 0
- NFPA 99 0 NFPA 110, Level 1
- CSA 282-09
  UL 508
- ASTM B117 (salt spray test)
- Panel dimensions—W x H, 229 x 160 mm (9.0 x 6.3 in.)

### **Communication and PC Software Available Options**

Refer to G6-76 Monitor III Software and the communication literature for additional communication and PC software information including Modbus® communication.

- Monitor III Software for Monitoring and Control (Windows®-based user interface)
- Converter, Modbus®/Ethernet. Supports a power system using controllers accessed via the Ethernet. Converter is supplied with an IP address by the site administrator. Refer to G6-79 for converter details.
- Converter, RS-232/RS-485. Supports a power system using controllers accessed via a serial (RS-232) connection.

#### APM402 Available Options

- Float/Equalize Battery Charger available with 6 or 10 amp output for 12 or 24V DC voltage output. The 10 amp model provides NFPA 110 charging and alarming capability.
- Manual Speed Adjust available for applications using closed transition ATS. Adjustment range for 60 Hz: 1751-1849 rpm (58.2-61.8 Hz) and for 50 Hz: 1451-1549 rpm (48.2-51.8 Hz).
- Prime Power Switch prevents battery drain during generator set non-operation periods and when the generator set battery cannot be maintained by an AC battery charger.
- Remote Emergency Stop Switch available as a wall mounted panel to remotely shut down the generator set.
- Remote Monitoring Panel. The Kohler® Remote Serial Annunciator (RSA) enables the operator to monitor the status of the generator set from a remote location, which may be required for NFPA 99 and NFPA 110 installations, and up to four Automatic transfer switches.
- Run Relay provides a relay indicating that the generator set is running.
- Shunt Trip Wiring provides relay outputs to trip a shunt trip circuit breaker and to signal the common fault shutdowns. Contacts rated at 10 amps at 28 VDC or 120 VAC.
- Two Input/Five Output Module provides a generator set mounted panel with two inputs and five relay outputs.

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Modbus® is a registered trademark of Schneider Electric.

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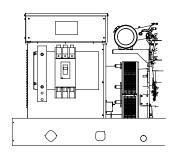
Availability is subject to change without notice. Kohler Co. reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. Contact your local Kohler® generator set distributor for availability.

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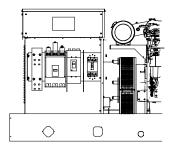
# KOHLER

### **Industrial Generator Set Accessories**

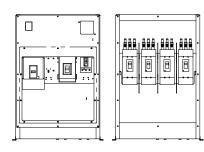
### Line Circuit Breakers 15-3250 kW



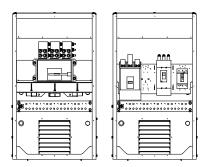
Single Circuit Breaker Kit with Neutral Bus Bar 15-300 kW Model Shown

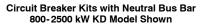


Multiple Circuit Breaker Kit with Neutral Bus Bar 180-300 kW Model Shown



Multiple Circuit Breaker Kits with Neutral Bus Bar 350-2250 kW Model Shown (also applies to some 300 kW models)





### **Standard Features**

- The line circuit breaker interrupts the generator set output during a short circuit and protects the wiring when an overload occurs. Use the circuit breaker to manually disconnect the generator set from the load during generator set service.
- Circuit breaker kits are mounted to the generator set and are provided with load-side lugs and neutral bus bar.
- Kohler Co. offers a wide selection of molded-case line circuit breaker kits including single, dual, and multiple configurations for each generator set.
- Four types of line circuit breakers are available: (see page 2 for definitions and pages 3 and 4 for application details)
  - Magnetic trip
  - Thermal magnetic trip
  - Electronic trip
  - Electronic with ground fault (LSIG) trip
- In addition, line circuit breakers are offered with 80% and 100% ratings.
- Single line circuit breaker kits allow circuit protection of the entire electrical system load.
- Dual line circuit breaker kits allow circuit protection of selected priority loads from the remaining electrical system load.
- Multiple line circuit breaker kits with field connection barrier allow circuit protection for special applications (350- 2500 kW models and selected 80- 300 kW models).
- Up to four line circuit breakers can be used on 350-2500 kW models.
- Line circuit breakers comply with the following codes and standards unless otherwise stated.
  - UL 489 Molded Case Circuit Breakers
  - UL 1077 Supplementary Protectors
  - UL 2200 Stationary Engine Generator Assemblies

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