

Model: KK08

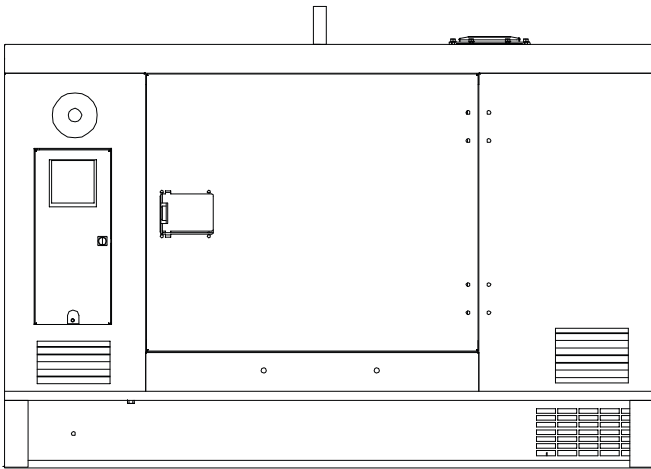
KOHLER POWER SYSTEMS

Diesel



Standard Features

- 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
- One-year limited warranty covers all systems and components
- Unit - mounted radiator with 45 °C
- Single-bearing alternator with class H insulation.
- Subbase fuel tank (8hrs @ 80% rated load).
- Vibration isolators.
- Dry type air filter with restriction indicator
- Fuel Filter two stage
- Main line breaker
- Starting battery and cables
- CPCB-certified sound enclosure
- Conveniently located fuel level indicator
- Operation and installation literature



Generator Set Ratings

Genset	Engine	Voltage	PH	Hz	Prime Rating	
					kW/kVA	Amps
KK08	KDW702	415	3	50	6/7.5	10.42
KKS08	KDW702	230	1	50	6/7.5	32.9

PRIME POWER RATINGS: Prime power ratings apply to installations where utility power is unavailable or unreliable. 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, overload power in accordance with ISO-3046/1 and BS 5514. For limited running time and base load ratings, consult the factory. 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.

Alternator Specifications

- Alternator meets BS EN 60034 and the relevant section of other international standards such as Bs5000, VDE 0530, IEC34, CSA C22.2.
- Self-ventilated and drip proof construction
- Superior voltage waveform form a 2/3 pitch wound stator

Specifications	Alternator
Type	2 Pole
Exciter type	With Brushes
Insulation	Class H
- Material	125°C, Prime
- Temperature rise	1, Sealed
Bearing: quantity, type	+/- 2%
Voltage regulation	230V 1 phase 50 Hz
Rating voltage	415V 3 phase 50 Hz

Application Data

Engine

Engine Specifications

Engine model	KDW702
Engine type	Water Cooled
Cylinder arrangement	2
Displacement, L (cu. in.)	0.686 (41.86)
Bore and stroke, mm (in.)	75 x 77.6 (2.95 x 3.06)
Compression ratio	22.5 : 1
Rated rpm	3000
Max. power at rated rpm, kWm (BHP)	11.68 (16)
Governor: type	Mechanical
Frequency regulation, no-load to full load	Class A2
Frequency regulation, steady state	ISO 8528 G2
Frequency, Fixed, Hz	50
Air cleaner type, all models	Dry

Exhaust

Exhaust System

Exhaust manifold type	Dry
Exhaust flow at rated kW, LPM	
Exhaust temperature at rated kW, dry exhaust, °C (°F)	700 (1292)
Exhaust outlet size at engine hookup, mm (in.)	42 (1.65)

Operation Requirements

Air Requirements

Combustion air, Kg/hr (LPM)	1240 (27.9)
Heat rejected to ambient air: Generator, kW (Btu/min.)	

Noise Level

Measured at 1m per CPCB norms, db(A)	CPCB norms
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Engine Electrical

Engine Electrical System

Starter motor rated voltage, VDC	12
-Qty.	1
Battery voltage, VDC	12 Volts
Battery Charger	12V, 5 Amps

Fuel

Fuel System

Fuel supply line, min. ID, mm(in.)	6(0.23)
Fuel return line, mm. ID, mm(in.)	6(0.23)
Max. lift engine-driven fuel pump, m(ft)	0.5
Fuel prime pump	Manual
Fuel filter: quantity, type	2 Stage, External
Recommended fuel	HSD-ASTM D2
Fuel tank capacity, L	50

Lubrication

Lubricating System

Type	in built
Oil pan capacity, L (qt.)	2.4 (2.53)
Oil pan capacity with filter, L (qt.)	2.6 (2.75)
Oil filter: quantity, type	1

Fuel Consumption

Diesel, Lph (gph) at % load @ 0.8 Pf	Prime Rating
100%	2.6 (0.57)
75%	2.0 (0.44)
50%	1.5 (0.33)

Exhaust Emissions

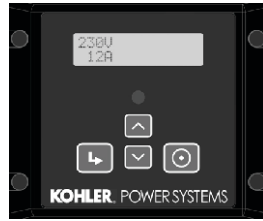
Per ISO 8178-5 mode cycle	CPCB norms
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Controller

Advance Digital Control (ADC 2200) Compact Controller

LCD display:

- Runtime hours
- Current
- Voltage
- Frequency
- Engine Temperature (Digital I/P)
- Engine oil pressure (Digital I/P)
- Battery V
- Fuel level



LCD display faults:

- High engine temperature
- Low oil pressure
- Overspeed
- Over & under voltage
- Over & under frequency
- E-stop
- Auxiliary fault
- Low fuel level
- Over load

Display warning:

- Low battery voltage
- High battery voltage
- Low fuel level

Standard Features and Accessories

Standard Features

- Master switch: Run/Off-Reset/Auto
- Current selector switch for 3 phase
- Remote two-wire start/stop capability
- Event Log
- Superior electronics
- Factory-built and production-tested
- One-source responsibility for the generating system and accessories
- Automatic start with programmed cranking cycle
- Field Software upgrade possibility

Environmental Specifications

- Operating temperature: -10°C to 60°C (14°F to 140°F)
- Storage temperature: -60°C to 70°C (-76°F to 158°F)
- Humidity: 0-95% condensing

Power Requirements

- 12 or 24 VDC with fuse protection
- 120 mA @ 12 VDC

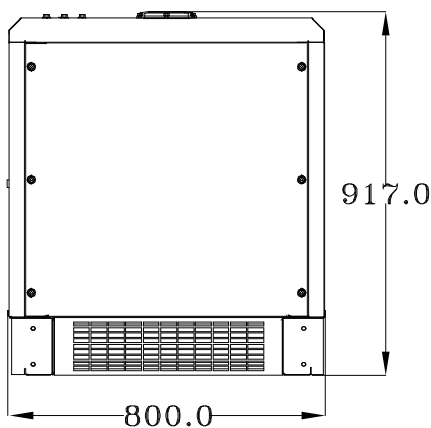
Dimensions and Weights

Overall Size, L x W x H, mm (in.):

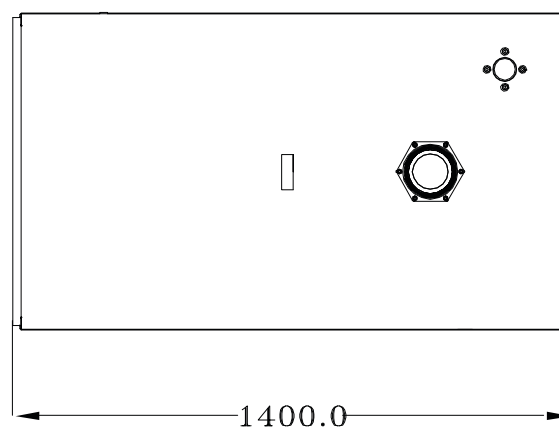
1400 x 800 x 917 (55.1 x 31.5 x 36.10)

Weight: Wet, max., kg (lb.):

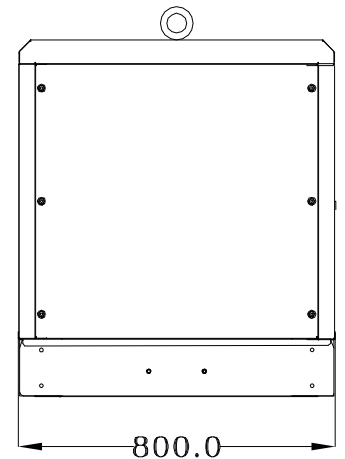
335 (738.5)



LHS view



TOP view



RHS view