

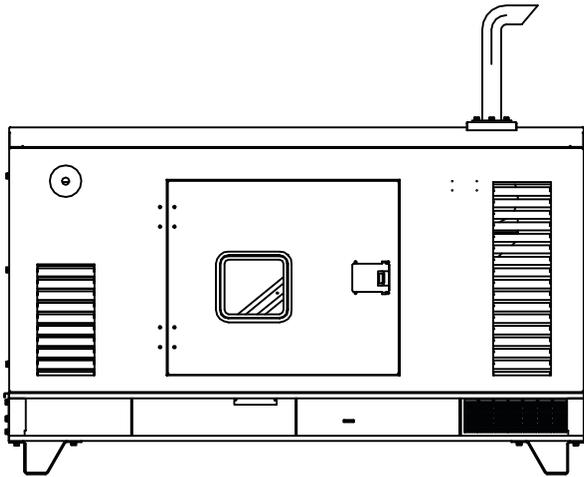
# Model: KK10 II

**KOHLER** POWER SYSTEMS

**Diesel**

**ISO 9001**  
KOHLER  
POWER SYSTEMS  
NATIONALLY REGISTERED

## Standard Features



- Industrial Diesel Engine with 12-volt battery charging alternator
- Single-bearing alternator with insulation class H.
- Unit-mounted radiator with 45°C
- Base frame mounted fuel tank of 8hrs capacity
- Inbuilt Vibration isolators.
- Dry type air filter
- Main line breaker
- Fuel Filter two stage
- Starting battery and battery cables
- Exhaust Tail pipe as standard scope of supply
- CPCB II-certified sound enclosure
- Digital controller
- Operations and installation literature

## Kohler Advantage

- 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.
- Compact Design
- Fast Response time
- Easy of maintenance

## Generator Set Ratings

Genset	Engine	Alternator	Voltage	PH	Hz	kW	Prime Rating	
							kVA	Amps
KK10-II	KDW1003-GSI2	ECP3-1L/2	415	3	50	8	10	13.9
KKS10-II	KDW1003-GSI2	ECP3-1L/2	230	1	50	8	10	43.5

**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.

# Alternator Specifications

- Alternator meets BS EN 60034 and the relevant section of other international standards such as BS5000, VDE 0530, NEMA MG1-32, IEC34, CSA C22.2-100, AS1359.
- Self-ventilated and dripproof of IP23 construction.
- Superior voltage waveform form a 2/3 pitch wound stator

Specifications	Alternator
Type	2 Pole
Exciter type	Brushless
Voltage regulator	DSR
Insulation	
-Material	Class H
-Temperature rise, Prime	125
Bearing: Quantity, Type	1, Seals
Coupling	Flexible Disk
Excitation	Self Excitation
Short Circuit ratio	1.13
Voltage regulation	+/-1.5%
Full Load current	
3 Ph	13.9
1 Ph	43.5
Prime at 125 ° C, kVA	10
Frequency, Fixed, Hz	50

## Application Data

### Engine

#### Engine Specifications

Engine model	KDW1003-GSI2
Engine type	Natural Aspiration
Cylinder arrangement	3, inline
Displacement, L (cu. in.)	1.08 (65.90)
Bore and stroke, mm (in.)	75X77.6(2.95X3.05)
Compression ratio	22.8 : 1
Rated rpm	3000
Max. power at rated rpm, kWm (BHP)	15 (20.1)
Governor: type	Mechanical
Governing : Class	Class A2
Frequency regulation, steady state	ISO 8528 G2
Air cleaner type, Qty	Dry, 1

### Exhaust

#### Exhaust System

Exhaust Manifold type	Dry
Exhaust temperature at rated kW, dry exhaust, °C (°F)	600 (1112)
Maximum allowable back pressure, kPa (in.Hg)	5(1.48)
Exhaust outlet size at engine hookup, mm (in)	42 (1.65)
Silencer Type, Quantity	Residential, 1

### Engine Electrical

#### Engine Electrical System

Starter Motor rated voltage, VDC	12 V
Battery charging alternator	12 V, 5 Amp
Ground (negative/positive)	Negative
Volts, VDC	12
Battery Type-	Lead Acid
Amps, Ah	35
Qty	1
Battery voltage, VDC	12

### Fuel

#### Fuel System

Fuel prime pump	Manual
Fuel filter : Type, Qty	Spin-on, 2
Recommended fuel	HSD-ASTM D2
Fuel tank capacity, L	60
Filter change period	500 hrs/ 6 months whichever is earlier

# Application Data

## Cooling

### Radiator System

Ambient temperature, °C (°F)	45 (113)
Radiator system capacity, including engine, L (gal)	4 (0.88)
Water pump type	Impeller
Fan diameter, including blades, mm (in.)	380 (14.96)
Fan, kWm (HP)	0.4 (0.54)

## Lubrication

### Lubricating System

Type	In built
Lube oil Type	Kohler Power Premium Oil
Oil pan capacity, L	4.7
Oil pan capacity with filter, L	4.9
Oil filter: quantity	1
Oil Change period	300 hours / 3 months whichever is earlier

## Controller

### Advance Digital Control (ADC 2200) Standard Features and Accessories

#### 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 current

Display warning:

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

#### Standard Features

- Master switch: Run/Off-Reset/Auto
- Current selector switch
- Remote two-wire start/stop capability
- Superior electronics
- Factory-built and production-tested
- One-source responsibility for the generating system and accessories

#### 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
- 60 mA @ 24 VDC

#### Control Panel

- Alternator to Control Panel connection with Copper Cable only
- MCCB/MCB Details : C & S  
Rating : 3 Ph - 16 Amp  
1 Ph - 50 Amp
- Output Cable Size (Sq. mm) : 3 Ph : 4  
1 Ph : 16

# Application Data

## Air Requirement

Radiator-cooled cooling air, m <sup>3</sup> /min	80
Combustion air, kg/hr	90
Heat rejected to ambient air : Generator, kW (Btu/min)	8 (455.35)

## Other Details

Anti vibration Location	Above to Base
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## Optional Features

- Microprocessor based AMF Control Panel
- GPRS base Generator monitoring System

## Fuel Consumption

Diesel, Lph	10 kVA
100%	3
75%	2.7

## Exhaust Emissions

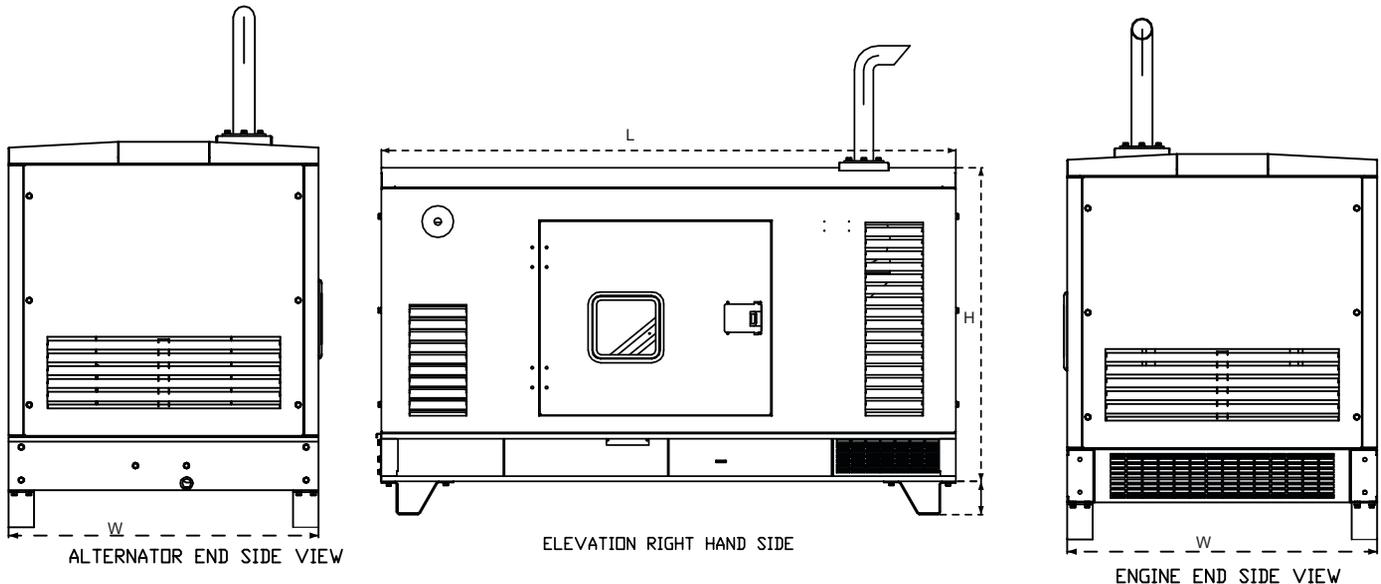
Per ISO 8178-5 mode cycle	CPCB II norms
Noise Level Measured at 1 m per CPCB guidelines	CPCB II norms

## Dimension and weight

Overall Size, L X W X H, mm	1750 x 850 x 952
Dry, max, kg	411

## Standard Warranty

One (1) year or 1500 hours (whichever occurs first) from date of initial startup



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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