

Model: KK05 II

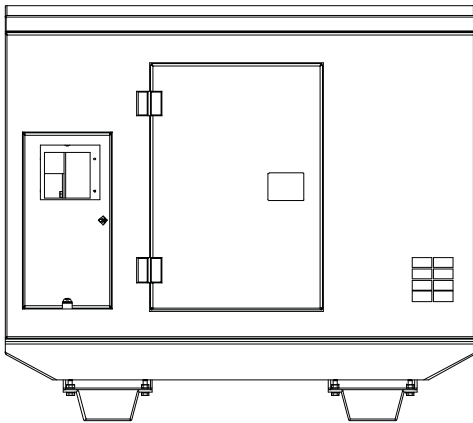
KOHLER POWER SYSTEMS

Diesel

ISO 9001
KOHLER
POWER SYSTEMS
NATIONALLY REGISTERED

Standard Features

- Air cooled Diesel Engine.
- Single-bearing alternator with class H insulation.
- Base frame mounted fuel tank of 8hrs capacity
- Inbuilt vibration isolators.
- Dry type air filter.
- Spin-on type fuel filter.
- DG isolator/ breaker.
- Starting battery and cables.
- KUT type connector
- CPCB II-certified sound enclosure.
- Canopy with wheel and handle
- Digital controller
- Fuel level indicator Octa gauge & LED type display



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	kVA	Amps
KK05-II ⁺	15LD440-GSI2	S16W-150	415	3	50	4	5	6.9
KKS05-II [*]	15LD440-GSI2	S16W-150	230	1	50	4	5	17.4

⁺**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.

^{*}**STANDBY POWER RATING** : Standby rating applies to installations served by a reliable utility source. Standby power is applicable to varying loads for the duration of the utility power interruption. There is no overload capability for the standby rating; use of the generator set above the standby rating is prohibited. Ratings are in accordance with ISO 3046/1, BS 5514, AS 2789, and DIN 6271.

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	Capacitor
Insulation	
-Material	Class H
-Temperature rise, Prime	125
Bearing: Quantity, Type	1, Seals
Coupling	Direct
Excitation	Self Excitation
Voltage variation	+/-5%
Full Load current	
3 Ph	6.9
1 Ph	17.4
Prime at 125 ° C, kVA	5
Frequency, Fixed, Hz	50

Application Data

Engine

Engine Specifications

Engine model	15LD440-GSI2
Engine type	Natural Aspiration
Cylinder arrangement	1, inline
Displacement, L (cu. in.)	0.44 (26.85)
Bore and stroke, mm (in.)	76 x 86 (2.99 x 3.38)
Compression ratio	20.3 : 1
Rated rpm	3000
Max. power at rated rpm, kWm (BHP)	6.1(8.18)
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	Dry
Exhaust temperature at rated kW, dry exhaust, °C (°F)	500(932)
Maximum allowable back pressure, kPa (in.Hg)	5(1.48)
Exhaust outlet size at engine hookup, mm (in)	40 (1.57)
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	External, 1
Recommended fuel	HSD-ASTM D2
Fuel tank capacity, L	15
Filter change period	500 hrs/ 6 months whichever is earlier

Application Data

Lubrication

Lubricating System

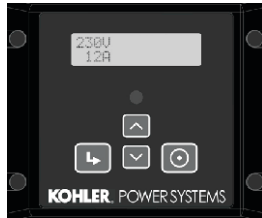
Type	Full Pressure
Lube oil Type	Kohler Power Premium Oil
Oil pan capacity, L	1.2
Oil pan capacity with filter, L	1.4
Oil filter: quantity, type	1
Oil Change period	300 hours / 3 months whichever is earlier

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
- 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 - 10 Amp
1 Ph - 25 Amp
- Output Cable Size (Sq. mm) : 3 Ph : 2.5
1 Ph : 4

Application Data

Air Requirement

Combustion air, LPM	530
Heat rejected to ambient air : Generator, kW (Btu/min.)	2.85 (162)

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	5 kVA
100%	1.4
75%	1

Exhaust Emissions

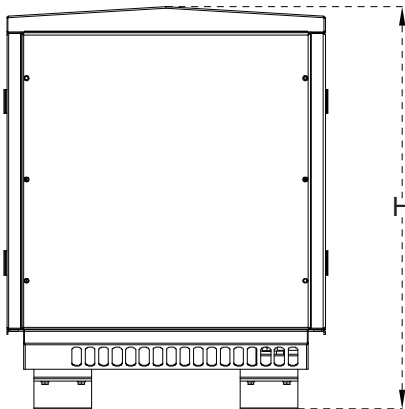
Per ISO 8178-5 mode cycle	CPCB II norms
Noise Level Measured at 1 m per CPCB guidelines	CPCB II norms

Dimension and weight

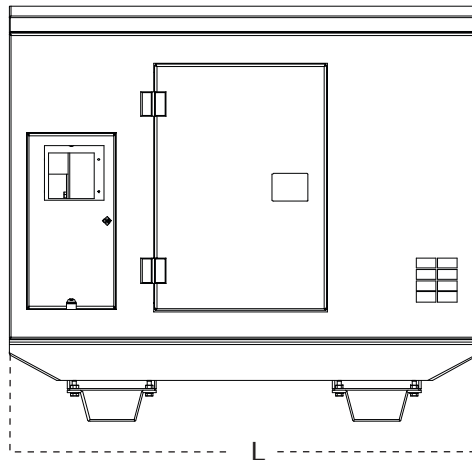
Overall Size, L X W X H, mm	945 x 660 x 840
Dry, max, kg	209

Standard Warranty

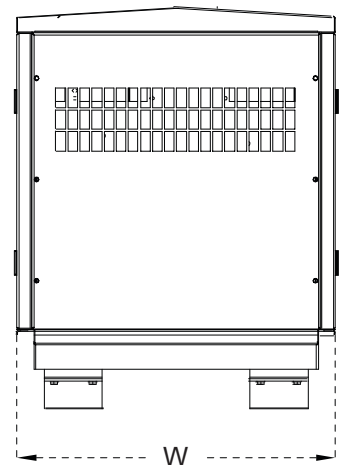
One (1) year or 1500 hours (whichever occurs first) from date of initial startup



LHS view



Front view



RHS view

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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