

Prime Rating Range	
Genset Model	KDG0015P2
Frequency	50Hz
kVA	15



The Kohler Advantage

- One-stop solution for the generating system and accessories
- Manufactured in India with global expertise
- Compact design with ease of maintenance
- Excellent motor starting capability
- Flexible & creative customized solutions to meet customer needs
- Fast response time
- Two-years or 5000 hours as per standard warranty terms from date of initial startup

Special Features

- Natural aspirated industrial diesel engine with superior efficiency and operating economy
- Integral vibration isolation eliminates the need for under-unit vibration spring isolators
- Advanced Digital Controller (ADC) with 3 auto crank cycles and inbuilt AMF logic
- Alternator features:
 - Alternator meets Indian and international standards
 - Self-ventilated and dripproof of IP23 construction
 - Superior voltage waveform by 2/3 pitch wound stator
 - Sustained short circuit current of up to 300% of the rated current
- Silencer located inside canopy

Standard Features

- Engine mounted battery charging alternator
- Single - bearing alternator with insulation Class H
- Unit mounted radiator with 50°C ambient temperature
- Base frame mounted fuel tank with minimum 8 hrs running capacity
- Dry type air filter with restriction indicator
- DG circuit breaker
- Electric start with battery
- Conveniently located fuel level indicator
- Exhaust tail pipe as standard scope of supply
- Weather proof enclosures to withstand harsh climate
- Ease of accessibility for all routine service points
- Riser blocks for lifting and handling

Conformance Standards

- ISO 3046
- BS 5514
- ISO 8528
- BS EN 60034
- BS5000
- VDE 0530
- NEMA MG1-32
- IEC34
- AS1359
- CSA C22.2-100

Generator Set Ratings

Genset	Engine	Voltage	Phase	Hz	Prime Rating		Amps
					kWe	kVA	
KDG0015P2	G15-II	415	3	50	12	15	20.9
KDG0015P2	G15-II	230	1	50	12	15	65.2

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.

Engine Specifications

Specifications	15 kVA
Engine model	G15-II
Engine aspiration	Natural aspiration
No. of cylinders & arrangement	2, Inline
Displacement, L (cu. in.)	1.560 (95.19)
Bore and stroke, mm (in.)	95 x 110 (3.74 x 4.33)
Compression ratio	17.5:1
Governor: type, Class	Mechanical, Class A1
Frequency regulation, steady state	ISO 8528 G2
Air cleaner type, Qty	Dry, 1
Unit-mounted radiator ambient temperature °C (°F)	50 (122)
Max. power kWm (BHP) @ rated speed (rpm)	17.16 (23) @ 1500
Diesel Fuel Consumption	
100% Load (Lph)	3.8
75% Load (Lph)	2.8
Lube Oil Consumption	
100% load	0.1 % of SFC
Fuel System	
Fuel priming	Manual
Fuel filter : Type, Qty	Combo fuel filter, 1
Recommended fuel	HSD-ASTM D2
Fuel tank capacity, L	75
Fuel filter change period	Initial - 100 hrs / 3 months, Subsequent 500 hrs / 6 months whichever is earlier
Lubrication System	
System type	Forced lubrication
Lube oil type	Kohler Oil
Oil pan capacity with filter, L	6.5
Oil filter: Quantity, Type	2, spin on & by-pass
Oil and oil filter change period	Initial - 100 hrs / 3 months, Subsequent 500 hrs / 6 months whichever is earlier
Exhaust System	
Max. allowable back pressure, KPa (in.Hg)	4 (1.18)
Exhaust outlet size at engine hookup, mm (in)	50 (1.97)
Silencer Type, Quantity	Residential, 1
Exh. temperature at rated kW, dry exhaust, °C (°F)	550 (1022)
Cooling System	
Ambient temperature, °C (°F)	50 (122)
Coolant capacity including engine, L (gal)	6.9 (1.82)
Water pump type	Impeller
Fan diameter, including blades, mm (in.)	406.5 (16)
Engine Electrical System	
Starter Motor rated voltage VDC	12 V
Battery charging alternator	12 V , 35 Amp
Ground (negative/positive)	Negative
Battery type-	Lead acid
Battery rating (Amp-hour)	90
Quantity	1
Battery voltage, VDC	12

Alternator Specifications

Specifications	15 kVA
Type	4 Pole
Exciter type	Brushless
Voltage regulator	AVR
Insulation - Material - Temperature rise, Prime	Class H 125°C
Bearing: Quantity, Type	1, Sealed
Coupling	Close coupled
Voltage regulation	+/-1%
Excitation	Self excitation
Frequency, Fixed, Hz	50
Full load current - 3 phase - 1 phase	20.9 65.2
Prime at 125° C, kVA	15

Advanced Digital Controller (ADC3003)

Standard Features

- Master switch: Control On/Off
- Event Log
- Remote two-wire start/stop capability
- One-source responsibility for generating system & accessories
- Automatic start with programmed cranking cycle
- Field software upgrade possibility
- Operating temperature: -20°C to 70°C (-4°F to 158°F)
- Storage temperature: -60°C to 70°C (-76°F to 158°F)
- Humidity: 0-95% condensing
- Control Panel
 - Alternator to control panel connection with copper cable only
 - MCCB/MCB details : with short circuit and overload protection
 - Inbuilt AMF controller

Up to 200 meter cable length	15 kVA
Output copper cable size (Sq. mm) : 3 Ph (1 run)	4.0
Output copper cable size (Sq. mm) : 1 Ph (1 run)	25



Optional Features

- Microprocessor based AMF change over panel
- Remote monitoring system

Controller Information

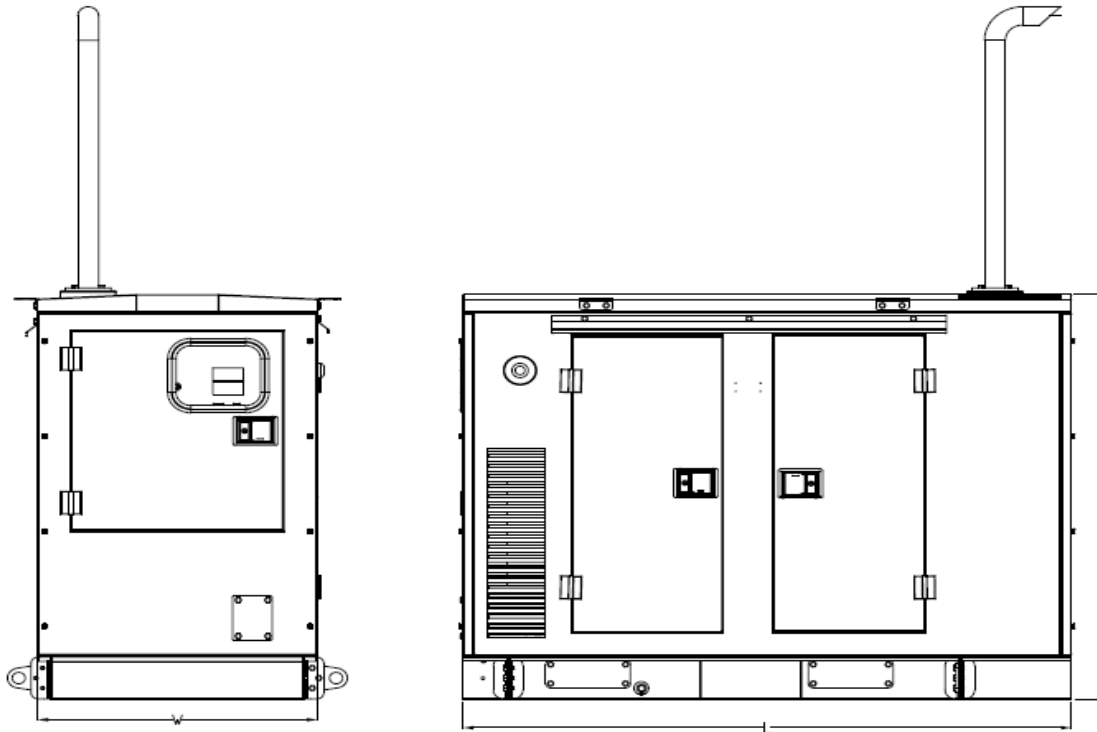
LCD Display	LCD Display Faults	Display Warnings	Optional Accessories	Power Requirements
Runtime hours	High engine temperature	Low battery voltage	Battery charger	8 to 35 V DC with fuse protection
Engine speed	Low oil pressure	High battery voltage	Earth leakage protection	85 mA @ 12 VDC
Power factor KVAR	Overspeed / underspeed	Low fuel level	VAF meter (multifunction)	96 mA @ 24 VDC
Current	Over and under voltage	Maintenance alarm	kWh meter	
Voltage	Over and under frequency	High engine temperature	Remote monitoring system	
Frequency	E-stop			
Engine temperature	Auxiliary fault			
Engine oil pressure	Low fuel level			
Battery voltage	Over load current			
Kilowatt & kVA	Phase reversal - for 3 phase			
Fuel level (in %age)				

Regulatory Compliance

Specifications	15 kVA
As per ISO 8178-5 mode cycle (Engine emission)	CPCB-II compliant
Noise level measured at 1 meter distance	< 75 dB (A)

Dimensions and weight

Specifications	15 kVA
Overall Size, L x W x H (mm)	1850 X 850 X 1407
Dry weight, max (kg)	780



NOTE : Drawing provided is for reference only and should not be used for planning installation. Please contact the Company for latest updated details.

- * Disclaimer: Product images shown are for illustration purpose and may not be an exact representation of product.
- * All the data is as per respective manufacturers' specification. Please refer O & M manual for maintenance and preservation guidelines.
- * Fuel consumption data is based on HS Diesel having specific gravity of 0.85 and conforming to IS:1460 Standard. Fuel consumption tolerance is +5%.

KOHLER reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.

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Authorised Channel Partner:

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