

7.5 kVA, 10 kVA and 12.5 kVA

Prime Ratings Range			
	KDG0008P1	KDG0010P1	KDG0013P1
	50Hz	50 Hz	50Hz
kVA	7.5	10	12.5



The Kohler Advantage

- One-stop solution for the generating system and accessories
- Manufactured in India with global expertise
- Compact design with ease of maintenance
- Maux winding provides excellent motor starting capability
- Flexible & creative customized solutions to meet customer needs
- Fast response time
- One-year or 1500 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
- 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 for up to 20 seconds
- Silencer located inside canopy

Standard Features

- Engine mounted 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
- All routine service points on one side of canopy
- 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	Alternator	Voltage	Phase	Hz	Prime Rating		Amps
						kWe	kVA	
KDG0008P1	KDW702-GSI2	ECP3-1L/2	415	3	50	6	7.5	10.4
KDG0008P1	KDW702-GSI2	ECP3-1L/2	230	1	50	6	7.5	32.6
KDG0010P1	KDW1003-GSI2	ECP3-1L/2	415	3	50	8	10	13.9
KDG0010P1	KDW1003-GSI2	ECP3-1L/2	230	1	50	8	10	43.5
KDG0013P1	KDW1003-GSI2	ECP3-1L/2	415	3	50	10	12.5	17.4
KDG0013P1	KDW1003-GSI2	ECP3-2L/2	230	1	50	10	12.5	54.3

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	7.5 kVA	10 kVA	12.5 kVA
Engine model	KDW702-GSI2	KDW1003-GSI2	KDW1003-GSI2
Engine aspiration	Natural aspiration	Natural aspiration	Natural aspiration
No. of cylinders & arrangement	2, Inline	3, Inline	3, Inline
Displacement, L (cu. in.)	0.686 (41.86)	1.08 (65.90)	1.08 (65.90)
Bore and stroke, mm (in.)	75 x 77.6 (2.95 x 3.05)	75 x 77.6 (2.95 x 3.05)	75 x 77.6 (2.95 x 3.05)
Compression ratio	22.8:1	22.8:1	22.8:1
Governor: type, Class	Mechanical, Class A2	Mechanical, Class A2	Mechanical, Class A2
Frequency regulation, steady state	ISO 8528 G2	ISO 8528 G2	ISO 8528 G2
Air cleaner type, Qty	Dry, 1	Dry, 1	Dry, 1
Unit-mounted radiator ambient temperature °C (°F)	50 (122)	50 (122)	50 (122)
Max. power kWm (BHP) @ rated speed (rpm)	9.5 (12.7) @ 3000	15 (20.1) @ 3000	15 (20.1) @ 3000
Diesel Fuel Consumption			
100% Load (Lph)	2.6	3	3.8
75% Load (Lph)	2	2.7	3.2
Lube Oil Consumption			
100% load (Lph)	0.011	0.019	0.019
Fuel System			
Fuel prime pump	Mechanical	Mechanical	Mechanical
Fuel filter : Type, Qty	Spin-on, 2	Spin-on, 2	Spin-on, 2
Recommended fuel	HSD-ASTM D2	HSD-ASTM D2	HSD-ASTM D2
Fuel tank capacity, L	50	60	60
Fuel filter change period	Initial - 50 hrs / 3 months, Subsequent 250 hrs / 6 months whichever is earlier	Initial - 50 hrs / 3 months, Subsequent 250 hrs / 6 months whichever is earlier	Initial - 50 hrs / 3 months, Subsequent 250 hrs / 6 months whichever is earlier
Lubrication System			
System type	Forced lubrication	Forced lubrication	Forced lubrication
Lube oil type	Kohler Oil	Kohler Oil	Kohler Oil
Oil pan capacity with filter, L	4.9	4.9	4.9
Oil filter: Quantity, Type	1, spin on	1, spin on	1, spin on
Oil and oil filter change period	Initial - 50 hrs / 3 months, Subsequent 250 hrs / 6 months whichever is earlier	Initial - 50 hrs / 3 months, Subsequent 250 hrs / 6 months whichever is earlier	Initial - 50 hrs / 3 months, Subsequent 250 hrs / 6 months whichever is earlier
Exhaust System			
Max. allowable back pressure, KPa (in.Hg)	4 (1.2)	5.3 (1.5)	5.3 (1.5)
Exhaust outlet size at engine hookup, mm (in)	75 (2.95)	75 (2.95)	75 (2.95)
Silencer Type, Quantity	Residential, 1	Residential, 1	Residential, 1
Exh. temperature at rated kW, dry exhaust, °C (°F)	600 (1112)	600 (1112)	600 (1112)
Cooling System			
Ambient temperature, °C (°F)	50 (122)	50 (122)	50 (122)
Coolant capacity including engine, L (gal)	3.8 (0.83)	4 (0.88)	4 (0.88)
Water pump type	Impeller	Impeller	Impeller
Fan diameter, including blades, mm (in.)	350 (13.78)	380 (14.96)	380 (14.96)
Engine Electrical System			
Starter Motor rated voltage VDC	12 V	12 V	12 V
Battery charger	12 V, 5 Amp	12 V, 5 Amp	12 V, 5 Amp
Ground (negative/positive)	Negative	Negative	Negative
Battery type-	Lead acid	Lead acid	Lead acid
Amp/hour	35	35	35
Quantity	1	1	1
Battery voltage, VDC	12	12	12

Alternator Specifications

Specifications	7.5 kVA	10 kVA	12.5 kVA
Type	2 Pole	2 Pole	2 Pole
Exciter type	Brushless	Brushless	Brushless
Voltage regulator	DSR	DSR	DSR
Insulation - Material - Temperature rise, Prime	Class H 125°C	Class H 125°C	Class H 125°C
Bearing: Quantity, Type	1, Sealed	1, Sealed	1, Sealed
Coupling	Flexible disk	Flexible disk	Flexible disk
Voltage regulation	+/-1.5%	+/-1.5%	+/-1.5%
Excitation	Self excitation	Self excitation	Self excitation
Frequency, Fixed, Hz	50	50	50
Short circuit ratio	1.13	1.13	1.13
Full load current - 3 phase - 1 phase	10.4 32.6	13.9 43.5	17.4 54.3
Prime at 125° C, kVA	40	50	62.5

Advanced Digital Controller (ADC2000)

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: -20°C to 70°C (-4°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

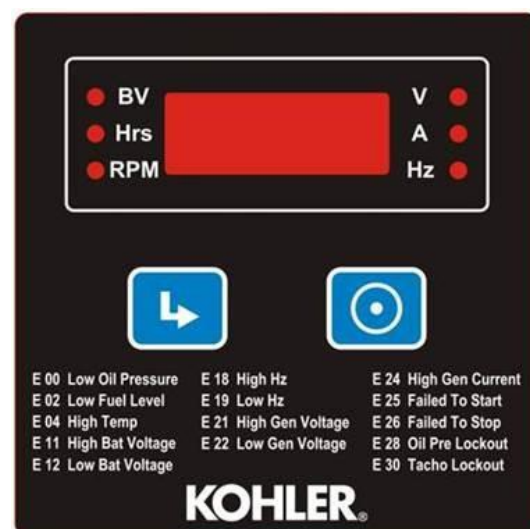
	7.5 kVA	10 kVA	12.5 kVA
Output copper cable size (Sq. mm) : 3 Ph (1 run)	2.5	4	4
Output copper cable size (Sq. mm) : 1 Ph (1 run)	6	16	16

Optional Features

- Microprocessor based AMF control panel
- GPRS based generator monitoring system

Controller Information

LED Display	LED Display Faults	Display Warnings	Optional Accessories	Power Requirements
Runtime hours	High engine temperature	Low battery voltage	Mains sensing relay	8 to 16 VDC with fuse protection
Engine speed	Low oil pressure	High battery voltage	Earth leakage protection	40 mA @ 12 VDC
Battery voltage	Overspeed / underspeed	Low fuel level		
Current	Over and under voltage	Maintenance alarm		
Voltage	Over and under frequency			
Frequency	Auxiliary fault			
	Low fuel level			
	Over load current			
	Phase reversal (3 Phase)			

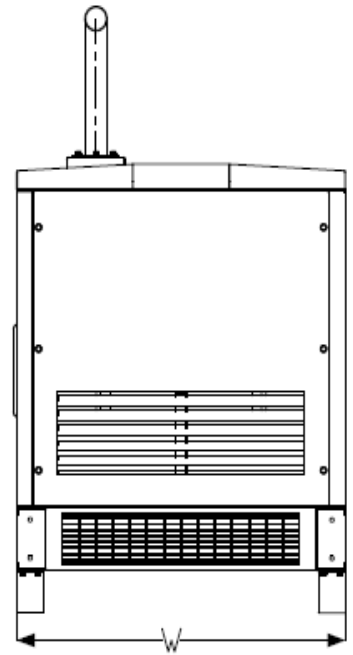
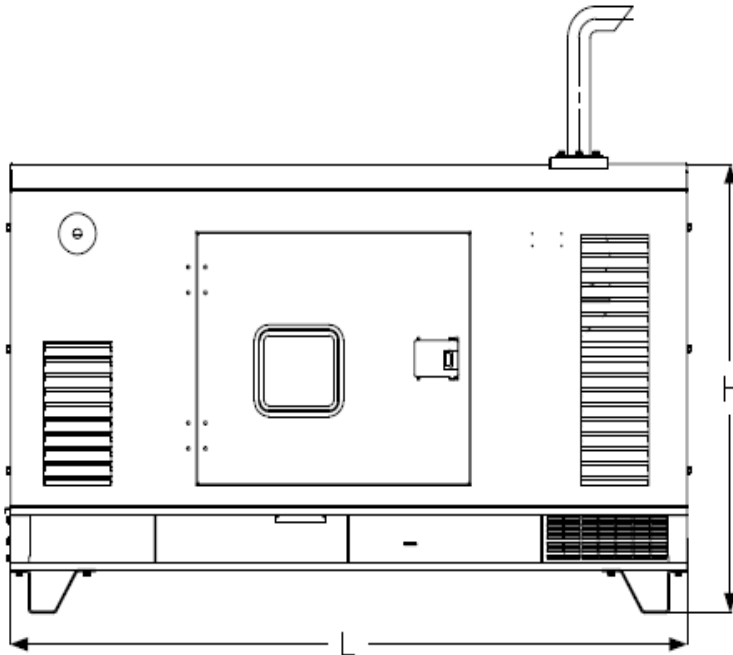


Regulatory Compliance

Specifications	7.5 kVA	10 kVA	12.5 kVA
As per ISO 8178-5 mode cycle (Engine emission)	CPCB-II compliant	CPCB-II compliant	CPCB-II compliant
Noise level measured at 1 meter distance	< 75 dB (A)	< 75 dB (A)	< 75 dB (A)

Dimensions and weight

Specifications	7.5 kVA	10 kVA	12.5 kVA
Overall Size, L x W x H (mm)	1450 x 800 x 1002	1750 x 850 x 1052	1750 x 850 x 1052
Weight, dry, max (kg)	361	411	419



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

All the data is as per respective manufacturers' specification.
Please refer O & M manual for maintenance and preservation guidelines.

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

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