

Prime Ratings Range			
Genset Model	KDG0040P1	KDG0050P1	KDG0063P1
Frequency	50Hz	50Hz	50Hz
kVA	40	50	62.5



The Kohler Advantage

- One-stop solution for the generating system and accessories
- Manufactured in India with global expertise
- Compact design with ease of maintenance
- Excellent motor starting capability
- Best in class block loading capacity
- 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

- Turbo-charged & after-cooled industrial diesel engine with superior efficiency and 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 coupled, skid 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
- Fuel water separator
- Conveniently located fuel level indicator
- Exhaust tail pipe as standard scope of supply
- Weather proof enclosure to withstand harsh climate
- Ease of accessibility for all routine service points
- Four point bottom lifting

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	
KDG0040P1	497 TC 76	415	3	50	32	40	55.6
KDG0050P1	497 TC 75	415	3	50	40	50	70
KDG0063P1	497 TC 74	415	3	50	50	62.5	86.2

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	40 kVA	50 kVA	62.5 kVA
Engine : model, type	497 TC 76, TCIC	497 TC 75, TCIC	497 TC 74, TCIC
No. of cylinders & arrangement	4, Inline	4, Inline	4, Inline
Displacement, L (cu. in.)	3.8 (231.89)	3.8 (231.89)	3.8 (231.89)
Bore and stroke, mm (in.)	97 x 128 (3.82 x 5.04)	97 x 128 (3.82 x 5.04)	97 x 128 (3.82 x 5.04)
Compression ratio	17.5:1	17.5:1	17.5:1
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)	47 (63) @ 1500	56.5 (75.7) @ 1500	67 (89.8) @ 1500
Diesel Fuel Consumption			
100% Load (Lph)	9.9	12	16
75% Load (Lph)	7.9	9.6	11.6
Lube Oil Consumption			
100% load	0.3 % of SFC	0.3 % of SFC	0.3 % of SFC
Fuel System			
Fuel priming	Manual	Manual	Manual
Fuel filter : Type, Qty	Spin-on, 1	Spin-on, 1	Spin-on, 1
Recommended fuel	HSD-ASTM D2	HSD-ASTM D2	HSD-ASTM D2
Fuel tank capacity, L	110	110	110
Fuel filter change period	Initial - 100 hrs / 3 months, Subsequent 500 hrs / 6 months whichever is earlier	Initial - 100 hrs / 3 months, Subsequent 500 hrs / 6 months whichever is earlier	Initial - 100 hrs / 3 months, Subsequent 500 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	12	12	12
Oil filter: Quantity, Type	1, spin on	1, spin on	1, spin on
Oil and oil filter change period	Initial - 100 hrs / 3 months, Subsequent 500 hrs / 6 months whichever is earlier	Initial - 100 hrs / 3 months, Subsequent 500 hrs / 6 months whichever is earlier	Initial - 100 hrs / 3 months, Subsequent 500 hrs / 6 months whichever is earlier
Exhaust System			
Maximum allowable back pressure, KPa (in. Hg)	6.9 (2)	9 (2.7)	12.8 (3.8)
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
Exhaust temperature at rated kW, °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)	18.5 (4.89)	18.5 (4.89)	18.5 (4.89)
Water pump type	Impeller	Impeller	Impeller
Fan diameter, including blades, mm (in.)	457 (18)	457 (18)	515 (20.28)
Engine Electrical System			
Starter Motor rated voltage VDC	12 V	12 V	12 V
Battery charging alternator	12 V, 35 Amp	12 V, 35 Amp	12 V, 35 Amp
Ground (negative/positive)	Negative	Negative	Negative
Battery type-	Flooded type, Maintenance free	Flooded type, Maintenance free	Flooded type, Maintenance free
Battery rating (Amp-hour)	90	90	90
Quantity	1	1	1
Battery voltage, VDC	12	12	12

Alternator Specifications

Specifications	40 kVA	50 kVA	62.5 kVA
Type	4 Pole	4 Pole	4 Pole
Exciter type	Brushless	Brushless	Brushless
Voltage regulator	AVR	AVR	AVR
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	Close coupled	Close coupled	Close coupled
Voltage regulation	+/-1%	+/-1%	+/-1%
Excitation	Self excitation	Self excitation	Self excitation
Frequency, Fixed, Hz	50	50	50
Full load current - 3 Phase	55.6	70	86.2
Prime at 125° C, kVA	40	50	62.5

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	40 kVA	50 kVA	62.5 kVA
Output copper cable size: 3Ph (Sq. mm)	16	25	35

Optional Features

- Microprocessor based AMF change over panel
- Remote monitoring system

Controller Information

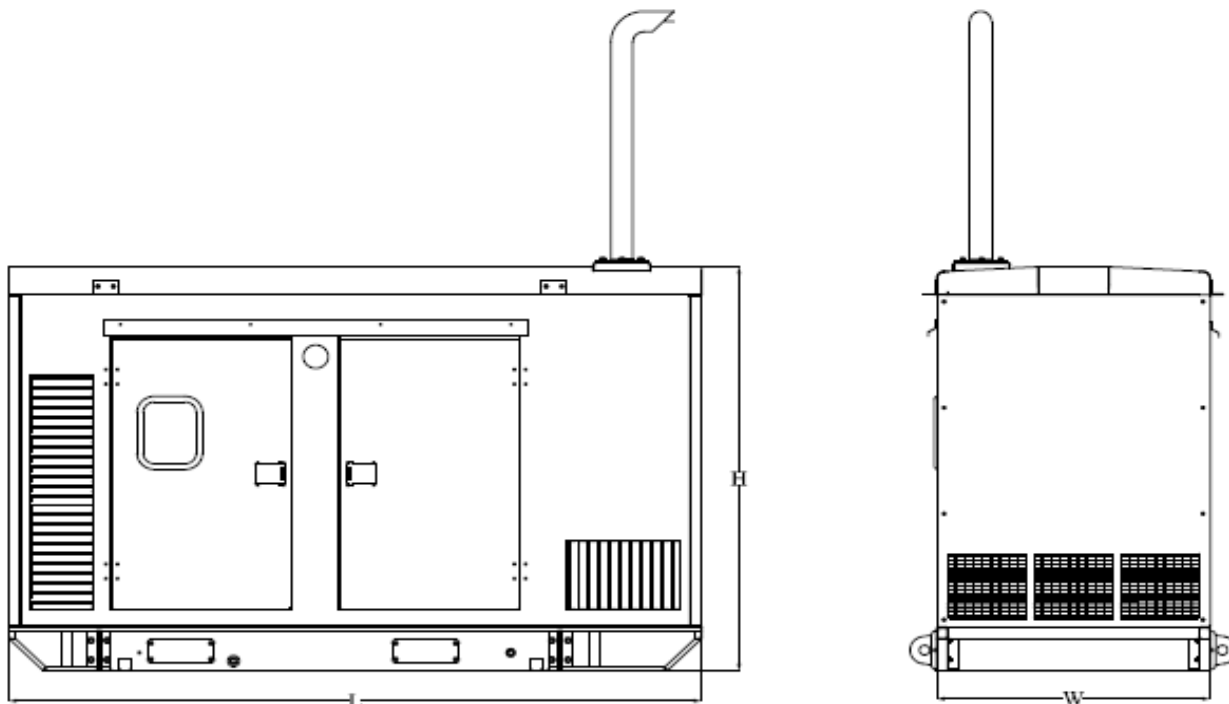
LCD Display	LCD Display Faults	Display Warnings	Optional Accessories	Power Requirements
Runtime hours	High engine temperature	Low battery voltage	Battery charger	8 to 35 V DC with fuse protection
Engine speed	Low oil pressure	High battery voltage	Earth leakage protection	85 mA @ 12 VDC
Power factor KVAR	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	40 kVA	50 kVA	62.5 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	40 kVA	50 kVA	62.5 kVA
Overall Size, L x W x H (mm)	2660 x 1050 x 1662	2660 x 1050 x 1662	2660 x 1050 x 1662
Dry weight, max (kg)	1160	1200	1230



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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ISO 9001
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Printed in India

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