KIRLOSKAR

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KIRLOSKAR DIESEL ENGINES

Engine Model : DV12

No. of Cyls.	Bore x Stroke (mm)	Displacement (cc)	Gross Power Output Rating as per ISO3046 at 1500 RPM bhp (kW)		Suitable Power Rating for Generator at 0.8 pf	
			Prime	Standby	Prime	Standby
12	130 x 150	23880	750 bhp (552 kW)	825 bhp (607 kW)	625 kVA	687.5 kVA

Features -

- Designed for heavy duty applications
- Extremely reliable
- Lower operating cost
- Easy maintenance – higher uptime
- Superior design standards that minimize power deration even at high ambient temperatures.
- Winner of the frost & Sullivan Voice of Customer Award in the “Best Bang for Buck” category in the Indian Generating sets Market.

Ratings Definition:

Standby Ratings: These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO 8528-3)

Prime Rating: These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercial purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

Continuous Rating: These ratings are applicable for supplying power continuously to a constant load upto the full output rating for unlimited hours. No sustained overload capability is available for this rating.

Power, Performance, Peace of Mind.

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Engine Technical Data :

Physical Data	
Engine Make	Kirloskar
Engine Model	DV12
Number of cylinders	12
Configuration	V-type
Type	Four stroke
Bore x Stroke (mm)	130 x 150
Displacement (cc)	23880
Cooling	Water cooled
Aspiration	Turbocharged After cooled
Compression Ratio	16.5 : 1
Starting Arrangement	24V Electric

Fuel System	
Type of fuel filter	Spin on type
Governor Type	Electronic
Class of Governing	ISO 3046 Class A0 & ISO 8528
Fuel pump type	Inline
Fuel pump make	Mico Bosch
Recommended Fuel	Class A2, High speed diesel
Specific fuel consumption gm/bhp-hr	146
Fuel consumption at 100% load +5% tolerance (lit/hr)	128.8
Fuel consumption at 75% load +5% tolerance (lit/hr)	96.6
Fuel consumption readings are based on diesel fuel with a specific gravity of 0.85 and confirming to BS 2869, Class A2)	

Air System	
Air Filter Type	Dry type replaceable element
Air Volume required for Ventilation (m^3/hr)	35790
Combustion air flow (m^3/hr)	2940
Total Air Flow required for ventilation (m^3/hr)	35760
Total Fresh air required (m^3/hr)	36700

Lubrication System	
Type of lube oil filter	Full flow spin on type
Oil to be used	Multi grade 15W40 (CF4 or better)
Oil pump type	Through G-rotor gear pump
Lub oil sump capacity (lit)	45
Lube oil consumption	0.12% of fuel consumption

Cooling System	
Cooling system capacity (lit)	144±10%
Water pump type	Centrifugal
Radiator fan load (hp)	24

Electrical System	
Starting Arrangement	24V Electric
Starter	24V Electric
Starter Battery Rating	2x180 Amp-hr
Battery charging alternator	Engine mounted 24V battery charger
Battery charger amps	45

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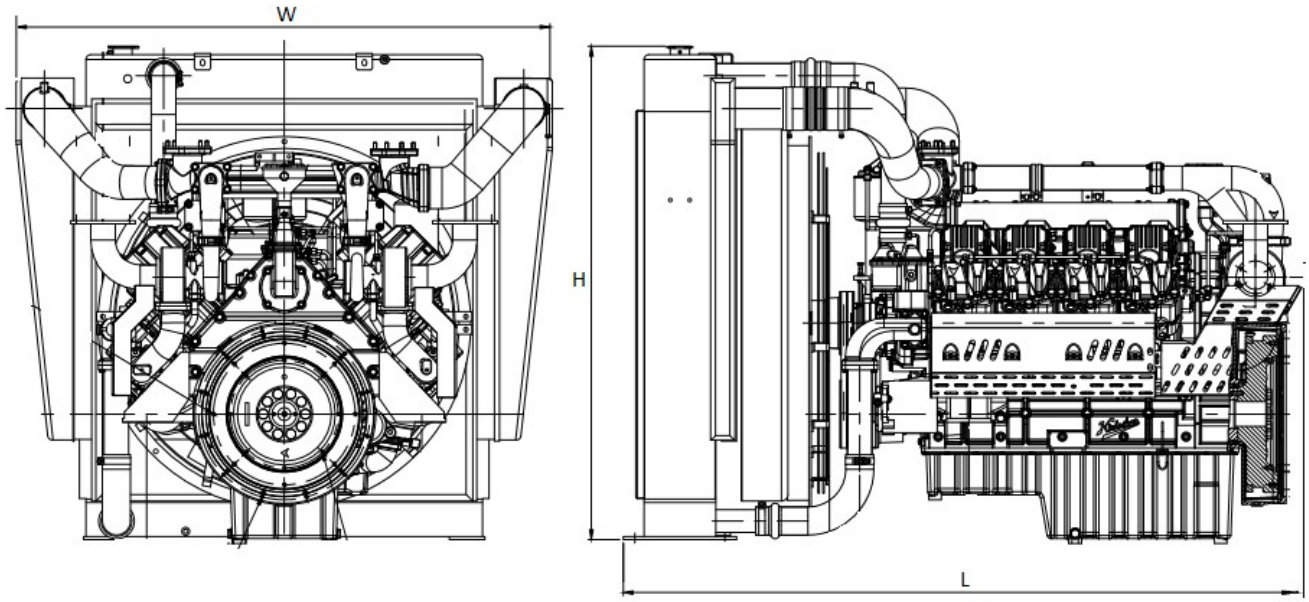
Engine Dimensional Details :



Dimensions in mm			
L	W	H	For engine mounting dimensions please refer the respective rating GA drawing
TBA	TBA	TBA	

Weight Details	
Engine weight without radiator Gross / Net (kg)	3030 / 2540
Radiator and accessories weight Gross / Net (kg)	1110 / 970

Coupling	
Flywheel	Suitable for SAE 14” disc
Housing	SAE1
Coupling disc	Not supplied

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