



KIRLOSKAR DIESEL ENGINES

Engine Model: 6K1080TA

No. of	Bore x Stroke	Displacement (cc)	Gross Power Output Rating as per ISO3046 at 1500 RPM bhp (kW)		Suitable Power Rating for Generator at 0.8 pf	
Cyls.	(mm)	(33)	Prime	Standby	Prime	Standby
6	105 x 125	6480	200 bhp (147.2 kW)	220 bhp (162 kW)	160 kVA	176 kVA

Features -

- Designed for heavy duty applications
- Extremely reliable
- All service points like dipstick, lube oil filling, lube oil filter, fuel pump, injectors are on one side which is the cooler side. This adds to operator comfort.
- 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.



Engine Technical Data:

Physical Data		
Engine Make	Kirloskar	
Engine Model	6K1080T	
Number of cylinders	6	
Configuration	Inline	
Туре	Four stroke	
Bore x Stroke (mm)	105 x 125	
Displacement (cc)	6480	
Cooling	Water cooled	
Aspiration	Turbocharged	
Compression Ratio	15.5 : 1	
Starting Arrangement	12V Electric	

Fuel System		
Type of fuel filter	Two stage spin on type	
Governor Type	Electronic	
Class of Governing	ISO 3046 Class A1 & ISO 8528-5, Class G2	
Fuel pump type	Inline	
Fuel pump make	Mico	
Recommended Fuel	Class A2, High speed diesel	
Fuel consumption at 100% load +5% tolerance (lit/hr)	36.6	
Fuel consumption at 75% load +5% tolerance (lit/hr)	27.7	
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 (m³/hr)	ТВА	
Combustion air flow (m³/hr)	TBA	
Total Air Flow required for ventilation (m³/hr)	ТВА	
Total Fresh air required (m³/hr)	ТВА	

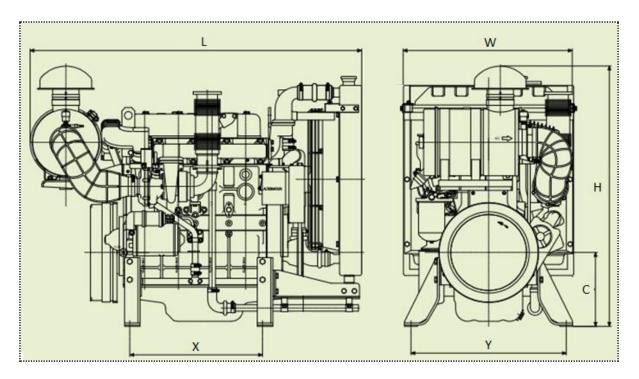
Lubrication System		
Type of lube oil filter	Full flow spin on type	
Oil to be used	Multi grade 15W40	
Oil pump type	Through G-rotor gear pump	
Lub oil sump capacity (lit)	21	
Lube oil consumption	0.3% of fuel consumption	

Cooling System		
Cooling system capacity (lit)	28	
Water pump type	Centrifugal	
Radiator fan load (hp)	6.5	

Electrical System		
Starting Arrangement	12V Electric	
Starter	12V Electric	
Starter Battery Rating	150 Amp-hr	
Battery charging alternator	Engine mounted 12V battery charger	
Battery charger amps	35	



Engine Dimensional Details:



		Dimensio	ons in mm		
L	W	Н	С	X	Y
1550	1125	1180	Please refer GA drawing		

Weight Details	
Engine weight without radiator Gross / Net (kg)	930 / 820
Radiator and accessories weight Gross / Net (kg)	120 / 98

Coupling		
Flywheel	Suitable for SAE 11.5" disc	
Housing	SAE3	
Coupling disc	Not supplied	



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