KOODEC

DIESEL ENGINE

KDG SERIES FOR GENERATOR

Model: 6KDG-122

Prime power Standby Power 112.0KW(152.0HP)/1500 rpm 122.0KW(166.0HP)/1500 rpm 120.0KW(163.0HP)/1800 rpm 125.0KW(167.0HP)/1800 rpm

- The engine performance is as per ISO 3046. Type of operation is based on ISO 8528.
- Prime power is available for an unlimited number of hours per year in a variable load application.
- The permissible average power output over 24 hours of operation shall not exceed 80% of the prime power rating.

Engine Specifications		Fuel System	
In-Line, 4 stroke, water-cooled, Turbocharged		Injection pump	Direct Injection type
Combustion type	Direct injection	Governor	Electronic type
Cylinders - Bore × stroke	6 - 105 × 125 mm	Feed pump	Mechanical type
Displacement	6494 сс	Injection nozzle	Multi-hole type/ 0.255 mm
Firing order	1-5-3-6-2-4	Opening pressure	25+0.5MPa
Compression ratio	16:1	Fuel filter	Single Stage, Paper
Dry weight	Approx. 670 kg	Fuel Consumption	
Dimension(LxWxH)	1,380 × 740 × 1,275 mm	Prime power at 1500rpm	30.5 liters/h
Rotation	Anti-clockwise	Standby power at 1500rpm	33.5 liters/h
Flywheel / Housing	SAE # 11.5 / # 3	Prime power at 1800rpm	33.3 liters/h
		Standby power at 1800rpm	36.6 liters/h
Cooling System		Lubrication System	
Cooling method	Fresh water forced type	Lub. Oil Pan Capacity	16.0 liters
Water pump	Centrifugal, Belt driven	Max. allowable Oil Temp	120 degree C.
Water Capacity	13.8 liters (engine only)		
			Min. 294 kPa
Max. water Temp	95 degree C.	Oil pressure	Max. 490 kPa
Cooling Fan	Blade 7EA - Ø 560 mm		
Intake & Exhaust System		Engineering Data	
Max air restriction	Clean 2 kPa / Dirty 5 kPa	Combustion Air at 1500rpm	9.1 m3/min
Exhaust back	Max 6 kPa	Exhaust Gas at 1500rpm	22.7 m3/min
		Combustion Air at 1800rpm	9.8 m3/min
		Exhaust Gas at 1800rpm	24.1 m3/min
Electric System		Conversion Table	
Charging generator	27.5 V × 36 A	PS = kW × 1.3596	in. = mm × 0.0394
Starting motor	24 V × 7.5 kW	psi = kg/cm2 × 14.2233	
Battery	12 V x 2 x 120 Ah	HP= PS x 0.98635	

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