KOODEC

KDG SERIES FOR GENERATOR

DIESEL ENGINE

Model: 4KDG-60

Prime power Standby Power 54.0KW (73.5HP)/1500 rpm 60.0KW(81.5HP)/1500 rpm 62.0KW(84.0HP)/1800 rpm 68.0KW(92.5HP)/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	Mechanical type
Cylinders - Bore × stroke	4 - 108 × 125 mm	Feed pump	Mechanical type
Displacement	4580 cc	Injection nozzle	Multi-hole type/ 0.255 mm
Firing order	1 - 3 - 4 - 2	Opening pressure	25+0.5MPa
Compression ratio	16:1	Fuel filter	Single Stage, Paper
Dry weight	Approx. 490 kg	Fuel Consumption	
Dimension(LxWxH)	1092 × 720 × 1113 mm	Prime power at 1500rpm	15.4 liters/h
Rotation	Anti-clockwise	Standby power at 1500rpm	17.0 liters/h
Flywheel / Housing	SAE # 11.5 / # 3	Prime power at 1800rpm	18.0 liters/h
		Standby power at 1800rpm	19.8 liters/h
Cooling System		Lubrication System	
Cooling method	Fresh water forced type	Lub. Oil Pan Capacity	14.0 liters
Water pump	Centrifugal, Belt driven	Max. allowable Oil Temp	110 degree C.
Water Capacity	8 liters (engine only)		
			Min. 294 kPa
Max. water Temp	95 degree C.	Oil pressure	Max. 490 kPa
Cooling Fan	Blade 7EA - Ø 530 mm		
Intake & Exhaust System		Engineering Data	
Max air restriction	Clean 2 kPa / Dirty 5 kPa	Combustion Air at 1500rpm	4.6 m3/min
Exhaust back	Max 6 kPa	Exhaust Gas at 1500rpm	11.5 m3/min
		Combustion Air at 1800rpm	5.1 m3/min
		Exhaust Gas at 1800rpm	12.5 m3/min
Electric System		Conversion Table	
Charging generator	13.5 V × 65 A	PS = kW × 1.3596	in. = mm × 0.0394
Starting motor	12 V × 3.7 kW	psi = kg/cm2 × 14.2233	
Battery	12 Vx 120 Ah	HP= PS x 0.98635	

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