

DIESEL ENGINE

KDG SERIES FOR GENERATOR

Model: 12KDG-725

Prime power 660.0KW(898.0HP)/1500 rpm 756.0KW(1028.0HP)/1800 rpm Standby Power 725.0KW(986.0HP)/1500 rpm 832.0KW(1132.0HP)/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	
V-Type, 4 stroke, water-co	ooled, Turbocharged,	Injection pump	Direct Injection type
air-to-air intercooled.		Governor	Electronic type
Combustion type	Direct injection	Feed pump	Mechanical type
Cylinders - Bore × stroke	12 - 128 × 142 mm	Injection nozzle	Multi-hole type/ 0.255 mm
Displacement	21,927 cc	Opening pressure	27+0.5MPa
	1-12-5-8-3-10-6-7-2-		
	11	- 150	
Firing order	-4-9	Fuel filter	Single Stage, Paper
Compression ratio	14.6:1	Fuel Consumption	
Dry weight	Approx. 1575 kg	Prime power at 1500rpm	165.2 liters/h
Dimension(LxWxH)	1,717 × 1,389 × 1,288 mm	Standby power at 1500rpm	181.5 liters/h
Rotation	Anti-clockwise	Prime power at 1800rpm	193.4 liters/h
Flywheel / Housing	SAE # 14 / # 1	Standby power at 1800rpm	212.9 liters/h
Cooling System		Lubrication System	
Cooling method	Fresh water forced type	Lub. Oil Pan Capacity	57.0 liters
Water pump	Centrifugal, Belt driven	Max. allowable Oil Temp	120 degree C.
Water Capacity	23.0 liters (engine only)		
			Min. 300 kPa
Max. water Temp	95 degree C.	Oil pressure	Max. 650 kPa
Cooling Fan	Blade 7EA - Ø 915 mm		
Intalia O Faharrat			
Intake & Exhaust System		Engineering Data	
Max air restriction	Clean 2 kPa / Dirty 5 kPa	Combustion Air at 1500rpm	52.2 m3/min
Exhaust back	Max 6 kPa	Exhaust Gas at 1500rpm	135.8 m3/min
Extrade back	Widh o Ki d	Combustion Air at 1800rpm	61.1 m3/min
		Exhaust Gas at 1800rpm	159.0 m3/min
		Extradist das at 10001 pm	155.0 1115/111111
Electric System		Conversion Table	
Charging generator	27.5 V × 45 A	PS = kW × 1.3596	in. = mm × 0.0394
Starting motor	24 V × 9.0 kW	psi = kg/cm2 × 14.2233	
Battery	12 V x 2 x 120 Ah	HP= PS x 0.98635	
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