

DIESEL ENGINE

KDG SERIES FOR GENERATOR

Model: 16KDG-960

Prime power 875.0KW(1190.0HP)/1500 rpm 960.0KW(1306.0HP)/1800 rpm Standby Power 960.0KW(1306.0HP)/1500 rpm 1020.0KW(1387.0HP)/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-cooled, Turbocharged,		Injection pump	Direct Injection type
air-to-air intercooled.		Governor	Electronic type
Combustion type	Direct injection	Feed pump	Mechanical type
Cylinders - Bore × stroke	16 - 128 × 142 mm	Injection nozzle	Multi-hole type/ 0.255 mm
Displacement	29,236 cc	Opening pressure	27+0.5MPa
	1-12-5-8-3-10-6-7-2-		
	11		
Firing order	-4-9	Fuel filter	Single Stage, Paper
Compression ratio	14.6:1	Fuel Consumption	
Dry weight	Approx. 2,100 kg	Prime power at 1500rpm	219.2 liters/h
Dimension(LxWxH)	1,950 × 1,389 × 1,288 mm	Standby power at 1500rpm	240.3 liters/h
Rotation	Anti-clockwise	Prime power at 1800rpm	249.6 liters/h
Flywheel / Housing	SAE # 18 / # 0	Standby power at 1800rpm	260.6 liters/h
Cooling System		Lubrication System	
Cooling method	Fresh water forced type	Lub. Oil Pan Capacity	78.0 liters
Water pump	Centrifugal, Belt driven	Max. allowable Oil Temp	120 degree C.
Water Capacity	26.0 liters (engine only)		
			Min. 300 kPa
Max. water Temp	95 degree C.	Oil pressure	Max. 650 kPa
Cooling Fan	Blade 7EA - Ø 1450 mm		
Intake & Exhaust			
System		Engineering Data	
Max air restriction	Clean 2 kPa / Dirty 5 kPa	Combustion Air at 1500rpm	69.5 m3/min
Exhaust back	Max 6 kPa	Exhaust Gas at 1500rpm	181.2 m3/min
		Combustion Air at 1800rpm	77.5 m3/min
		Exhaust Gas at 1800rpm	201.4 m3/min
		р	,
Electric System		Conversion Table	
Charging generator	27.5 V × 45 A	PS = kW × 1.3596	in. = mm × 0.0394
Starting motor	24 V × 11.0 kW	psi = kg/cm2 × 14.2233	
Battery	12 V x 2 x 120 Ah	HP= PS x 0.98635	
•			