

DIESEL ENGINE

KDG SERIES FOR GENERATOR

 Model: 8KDG-363
 Prime power
 330.0KW(449.0HP)/1500 rpm
 370.0KW(503.0HP)/1800 rpm

 Standby Power
 363.0KW(494.0HP)/1500 rpm
 405.0KW(551.0HP)/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	8 - 128 × 142 mm	Injection nozzle	Multi-hole type/ 0.255 mm
Displacement	14,618 cc	Opening pressure	27+0.5MPa
Firing order	1-5-7-2-6-3-4-8	Fuel filter	Single Stage, Paper
Compression ratio	14.6:1	Fuel Consumption	
Dry weight	Approx. 1050 kg	Prime power at 1500rpm	82.7 liters/h
Dimension(LxWxH)	1484 × 1389 × 1288 mm	Standby power at 1500rpm	91.0 liters/h
Rotation	Anti-clockwise	Prime power at 1800rpm	94.5 liters/h
Flywheel / Housing	SAE # 14 / # 1	Standby power at 1800rpm	104.0 liters/h
Cooling System		Lubrication System	
Cooling method	Fresh water forced type	Lub. Oil Pan Capacity	21.0 liters
Water pump	Centrifugal, Belt driven	Max. allowable Oil Temp	120 degree C.
Water Capacity	20.0 liters (engine only)		
			Min. 300 kPa
Max. water Temp	95 degree C.	Oil pressure	Max. 650 kPa
Cooling Fan	Blade 7EA - Ø 915 mm		
Intake & Exhaust System		Engineering Data	
Max air restriction	Clean 2 kPa / Dirty 5 kPa	Combustion Air at 1500rpm	26.1 m3/min
Exhaust back	Max 6 kPa	Exhaust Gas at 1500rpm	67.9 m3/min
		Not available at 1800rpm	29.9 m3/min
		Not available at 1800rpm	77.6 m3/min
Electric System		Conversion Table	
Charging generator	27.5 V × 45 A	PS = kW × 1.3596	in. = mm × 0.0394
Starting motor	24 V × 7.0 kW	psi = kg/cm2 × 14.2233	
Battery	12 V x 2 x 120 Ah	HP= PS x 0.98635	