DIESEL ENGINE

KOODEC

KDG SERIES FOR GENERATOR

Model: 16KDG-880

Prime power Standby Power

795.0KW(1081.0HP)/1500 rpm 880.0KW(1197.0HP)/1500 rpm

880.0KW(1197.0HP)/1800 rpm 965.0KW(1312.0HP)/1800 rpm

- The engine performance is as per ISO 3046. Type of operation is based on ISO 8528.

1-12-5-8-3-10-6-7-2-

1,950 × 1,389 × 1,288 mm

Fresh water forced type

Centrifugal, Belt driven 26.0 liters (engine only)

- 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

V-Type, 4 stroke, water-cooled, Turbocharged, air-to-air intercooled. Combustion type Direct injection Cylinders - Bore × stroke 16 - 128 × 142 mm Displacement 29.236 cc

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-4-9

14.6:1

Approx. 2,100 kg

Anti-clockwise

SAE # 18 / # 0

95 degree C.

Firing order **Compression ratio** Dry weight Dimension(LxWxH) Rotation Flywheel / Housing

Cooling System

Cooling method Water pump Water Capacity

Max. water Temp Cooling Fan

Intake & Exhaust System

Max air restriction Exhaust back

Clean 2 kPa / Dirty 5 kPa Max 6 kPa

Blade 7EA - Ø 1450 mm

Fuel System

Fuel filter

Injection pump Governor Feed pump Injection nozzle **Opening pressure** Direct Injection type Electronic type Mechanical type Multi-hole type/ 0.255 mm 27+0.5MPa

Single Stage, Paper

Min. 300 kPa

Max. 650 kPa

Fuel Consumption Prime power at 1500rpm 199.2 liters/h Standby power at 1500rpm 120.4 liters/h Prime power at 1800rpm 224.8 liters/h 246.5 liters/h Standby power at 1800rpm

Lubrication System

Lub. Oil Pan Capacity	78.0 liters
Max. allowable Oil Temp	120 degree C.

Oil pressure

Engineering Data

Combustion Air at 1500rpm 62.9 m3/min Exhaust Gas at 1500rpm 163.5 m3/min Combustion Air at 1800rpm 71.0 m3/min 184.6 m3/min Exhaust Gas at 1800rpm

Electric System

Charging generator Starting motor Battery

27.5 V × 45 A 24 V × 11.0 kW 12 V x 2 x 120 Ah **Conversion Table** $PS = kW \times 1.3596$ $psi = kg/cm2 \times 14.2233$ HP= PS x 0.98635

in. = mm × 0.0394

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