

DIESEL ENGINE

KDP SERIES FOR FIRE PUMP

Model: 6KDP-160

Prime power 160.0KW(215HP)/3000 rpm
Standby Power 176.0KW(241HP)/3000 rpm

Engine Specifications

In-Line, 4 stroke, water-cooled, **Turbocharger and Intercooler**

Combustion type Direct injection
 Cylinders - Bore x stroke 6 - 105 x125 mm
 Displacement 6494 cc
 Firing order 1 - 5-3 -6-2- 4
 Compression ratio 17 : 1
 Dry weight Approx. 680 kg
 Dimension(LxWxH) 1620 x 760 x 1180 mm
 Rotation Anti-clockwise
 Flywheel / Housing SAE # 11.5 / # 3

Cooling System

Cooling method Fresh water forced type
 Water pump Centrifugal, Belt driven
 Max. water Temp 95 degree C.
 Cooling Fan Blade 7EA - Ø 600 mm

Intake & Exhaust System

Max air restriction Clean 2 kPa / Dirty 5 kPa
 Exhaust back Max 6 kPa

Electric System

Charging generator 27.5 V x 36 A
 Starting motor 24 V x 7.5 kW
 Battery 12 V x 2 x 120 Ah

Fuel System

Injection pump Direct Injection type
 Governor Mechanicaltype
 Feed pump Mechanicaltype
 Injection nozzle Multi-hole type/ 0.255 mm
 Opening pressure 20+0.5MPa
 Fuel filter Single Stage, Paper

Fuel Consumption

Prime power at 3000rpm 44.0 liters/h
 Standby Power at 3000rpm 49.3 liters/h

Lubrication System

Lub. Oil Pan Capacity 17 liters
 Max. allowable Oil Temp 110 degree C.
 Min. 294 kPa
 Max. 490 kPa
 Oil pressure

Engineering Data

Combustion Air 11.30m³/min
 Exhaust Gas 27.35m³/min

Conversion Table

PS = kW x 1.3596 in. = mm x 0.0394
 psi = kg/cm² x 14.2233
 HP= PS x 0.98635