

DIESEL ENGINE

KDG SERIES FOR GENERATOR

Model: 6KDG-122	Prime power	112.0KW(152.0HP)/1500 rpm	120.0KW(163.0HP)/1800 rpm
	Standby Power	122.0KW(166.0HP)/1500 rpm	125.0KW(167.0HP)/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

In-Line, 4 stroke, water-cooled, Turbocharged	
Combustion type	Direct injection
Cylinders - Bore x stroke	6 - 105 x 125 mm
Displacement	6494 cc
Firing order	1-5-3-6-2-4
Compression ratio	16 : 1
Dry weight	Approx. 670 kg
Dimension(LxWxH)	1,380 x 740 x 1,275 mm
Rotation	Anti-clockwise
Flywheel / Housing	SAE # 11.5 / # 3

Fuel System

Injection pump	Direct Injection type
Governor	Electronic type
Feed pump	Mechanical type
Injection nozzle	Multi-hole type/ 0.255 mm
Opening pressure	25+0.5MPa
Fuel filter	Single Stage, Paper

Fuel Consumption

Prime power at 1500rpm	30.5 liters/h
Standby power at 1500rpm	33.5 liters/h
Prime power at 1800rpm	33.3 liters/h
Standby power at 1800rpm	36.6 liters/h

Cooling System

Cooling method	Fresh water forced type
Water pump	Centrifugal, Belt driven
Water Capacity	13.8 liters (engine only)
Max. water Temp	95 degree C.
Cooling Fan	Blade 7EA - Ø 560 mm

Lubrication System

Lub. Oil Pan Capacity	16.0 liters
Max. allowable Oil Temp	120 degree C.
Oil pressure	Min. 294 kPa Max. 490 kPa

Intake & Exhaust System

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

Engineering Data

Combustion Air at 1500rpm	9.1 m3/min
Exhaust Gas at 1500rpm	22.7 m3/min
Combustion Air at 1800rpm	9.8 m3/min
Exhaust Gas at 1800rpm	24.1 m3/min

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

Conversion Table

PS = kW x 1.3596	in. = mm x 0.0394
psi = kg/cm ² x 14.2233	
HP= PS x 0.98635	

6K0C-122

REV. 000

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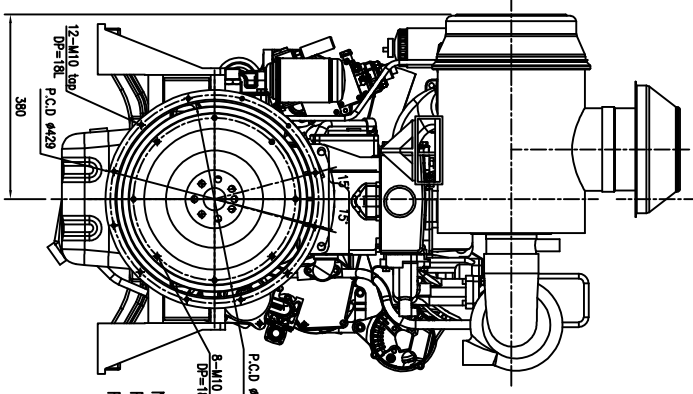
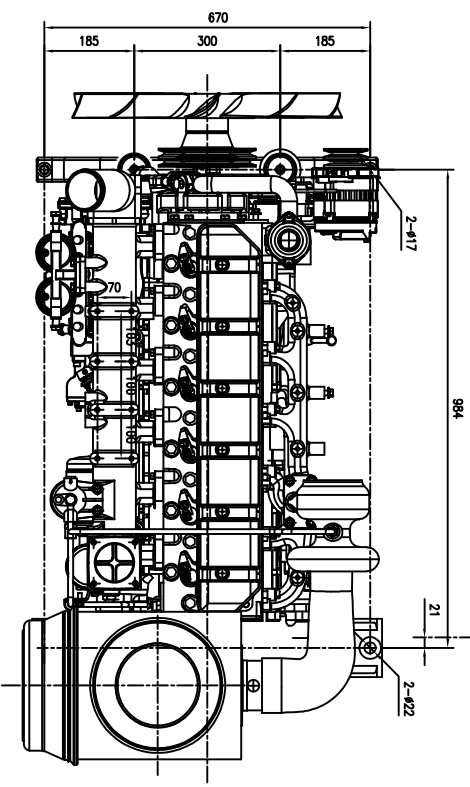
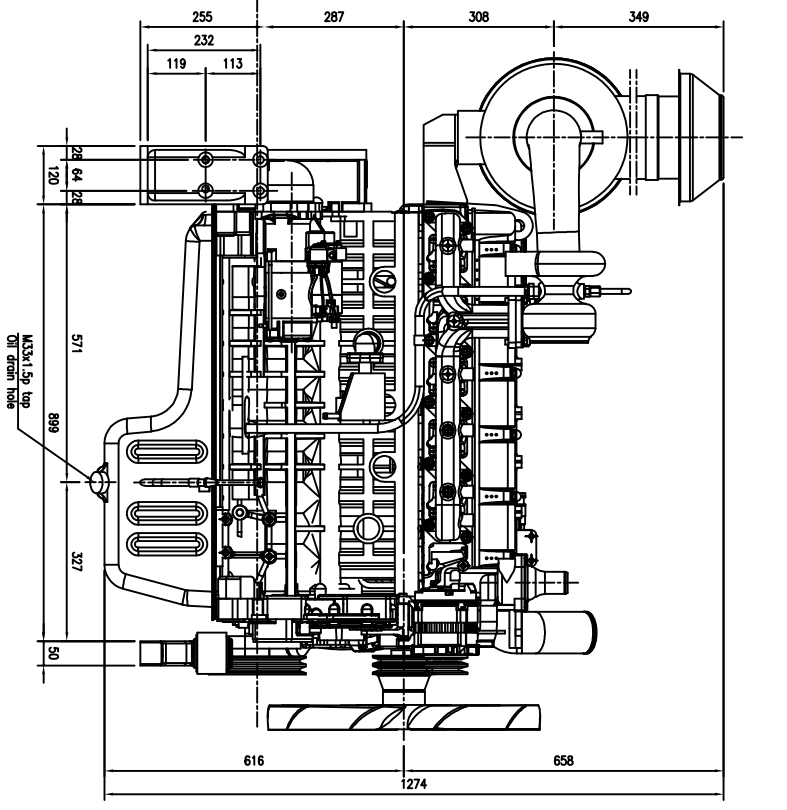
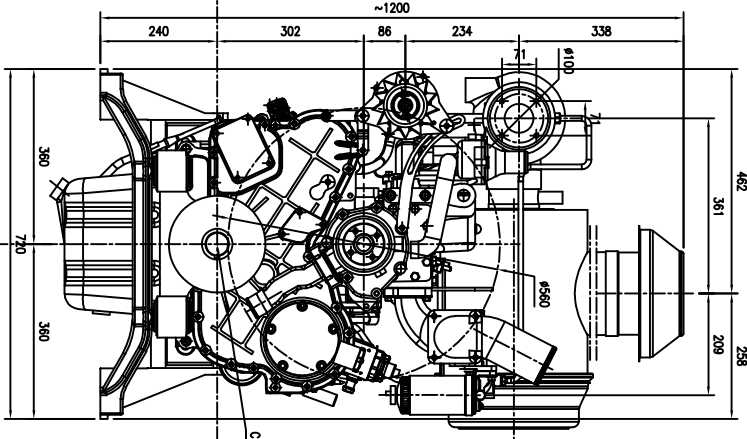
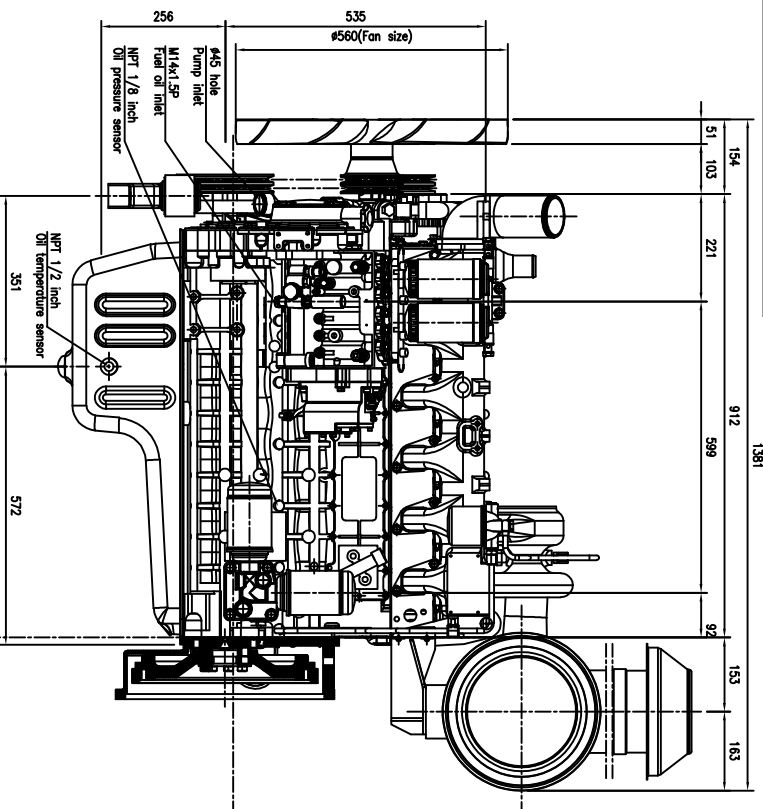
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163



NOTE:
FLYWHEEL : SAE #11.5
FLYWHEEL HOUSING : SAE #3



CUSTOMER		TITLE	
-		KODIEC ENGINE ASSEMBLY	
6K0C-122		6K0C-122	
SCALE	1/12	DATE	16/09/20
DRAWN BY	-	APPROVAL	-
CHECKED BY	-	CONTRACT NO.	6K0C-122
APPROVED BY	-	REV. NO.	00
CLIENT	6K0C-122	REVISED	00