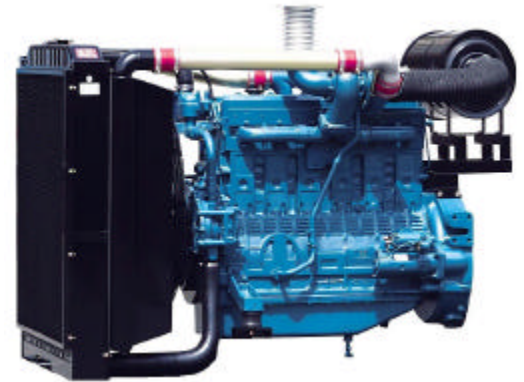


POWER RATING

Intermittent rating kW(PS) / rpm	Max. torque N.m(kg.m) / rpm	Fuel consumption g/kW.h(g/PS.h) / rpm
294 (400) / 2,100	1521 (155) / 1,400	220 (162) / 2,100

Note : 1. The engine performance corresponds to ISO 3046, DIN 6270B.
 2. Continuous duty at charge and constant speed consider on engine choice, a power derating of about 14%.
 3. Max. rpm of Continuous duty is 1,800rpm.



MECHANICAL SYSTEM

○ Engine Model	PU126TI
○ Engine Type	In-line 4 cycle, water cooled Turbo charged & intercooled
○ Combustion type	Direct injection
○ Cylinder Type	Replaceable dry liner
○ Number of cylinders	6
○ Bore x stroke	123(4.84) x 155(6.1) mm(in.)
○ Displacement	11.051(674.5) lit.(in ³)
○ Compression ratio	17 : 1
○ Firing order	1-5-3-6-2-4
○ Injection timing	14° BTDC
○ Compression pressure	Above 28 kg/cm ² (398 psi) at 200rpm
○ Dry weight	Approx. 910 kg (2006 lb)
○ Dimension (LxWxH)	1,383 x 870 x 1,207 mm (54.4 x 34.3 x 47.5 in.)
○ Rotation	Counter clockwise viewed from Flywheel

MECHANISM

○ Type	Over head valve
○ Number of valve	Intake 1, exhaust 1 per cylinder
○ Valve lashes at cold	Intake 0.30 mm(0.0118 in.) Exhaust 0.30 mm(0.0118 in.)

VALVE TIMING

	Opening	Close
○ Intake valve	18 deg. BTDC	34 deg. ABDC
○ Exhaust valve	46 deg. BBDC	14 deg. ATDC

OPTION & ACCESSORY PARTS

○ Engine parts	Fly wheel & housing Intake & exhaust manifold
○ Accessory parts	Raditor, silencer & air cleaner
○ Electrical parts	Gauge panel & stop solenoid

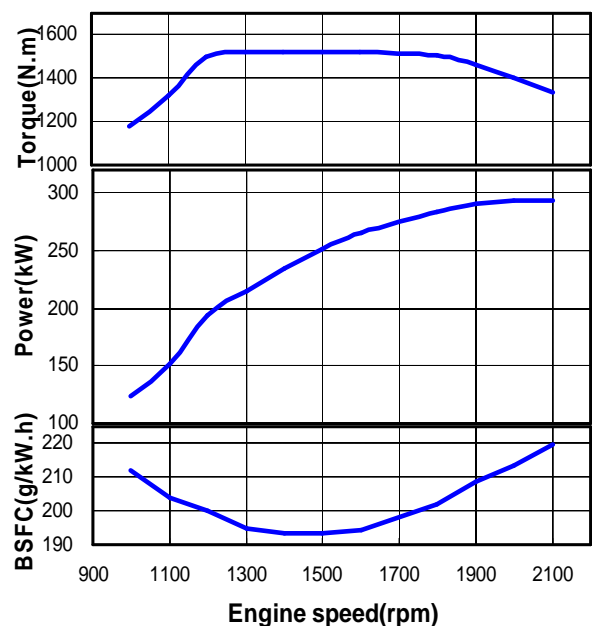
FUEL SYSTEM

○ Injection pump	Zexel in-line "P" type
○ Governor	RSV type(all speed control)
○ Feed pump	Mechanical type
○ Injection nozzle	Multi hole type
○ Opening pressure	220 kg/cm ² (3,129 psi)
○ Fuel filter	Full flow, cartridge type
○ Used fuel	Diesel fuel oil

LUBRICATION SYSTEM

○ Lub. Method	Fully forced pressure feed type
○ Oil pump	Gear type driven by crankshaft
○ Oil filter	Full flow, cartridge type
○ Oil pan capacity	High level 23 liters (6.1 gal.) Low level 20 liters (5.3 gal.)
○ Angularity limit	Front down 25 deg. Front up 25 deg. Side to side 15 deg.
○ Lub. Oil	Refer to Operation Manual

PERFORMANCE CURVE



COOLING SYSTEM

- Cooling method Fresh water forced circulation
- Water capacity 19 liters (5.02 gal.)
(engine only)
- Pressure system Max. 0.9 kg/cm² (12.8 psi)
- Water pump Centrifugal type driven by gear
- Water pump Capacity 320 liters (84.5 gal.)/min
at 2,100 rpm (engine)
- Thermostat Wax – pellet type
Opening temp. 83°C
Full open temp. 95°C
- Cooling fan Blower type, plastic
755 mm diameter, 7 blade

ELECTRICAL SYSTEM

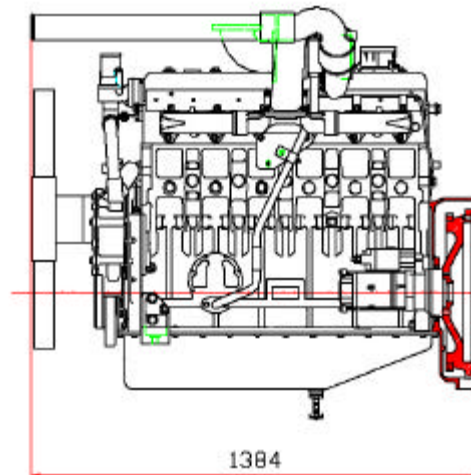
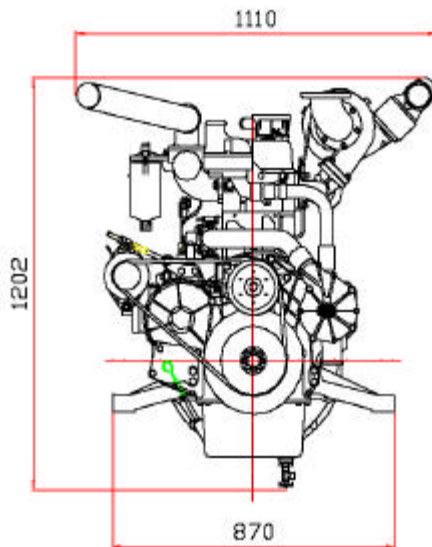
- Charging generator 24V x 45A alternator
- Voltage regulator Built-in type IC regulator
- Starting motor 24V x 6.0kW
- Battery Voltage 24V
- Battery Capacity 150 AH (recommended)
- Starting aid (Option) Block heater

ENGINEERING DATA

- Water flow 320 liters/min @2,100 rpm
- Heat rejection to coolant 30 kcal/sec @2,100 rpm
- Air flow 26 m³/min @2,100 rpm
- Exhaust gas flow 65 m³/min @2,100 rpm
- Exhaust gas temp. 505 °C @2,100 rpm
- Max. permissible restrictions
 - Intake system 220 mmH₂O initial
635 mmH₂O final
 - Exhaust system 1,000 mmH₂O max.

CONVERSION TABLE

- | | |
|------------------------------------|------------------------------------|
| in. = mm x 0.0394 | lb/ft = N.m x 0.737 |
| PS = kW x 1.3596 | U.S. gal = lit. x 0.264 |
| psi = kg/cm ² x 14.2233 | kW = 0.2388 kcal/s |
| in ³ = lit. x 61.02 | lb/PS.h = g/kW.h x 0.00162 |
| hp = PS x 0.98635 | cfm = m ³ /min x 35.336 |
| lb = kg x 2.20462 | |



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