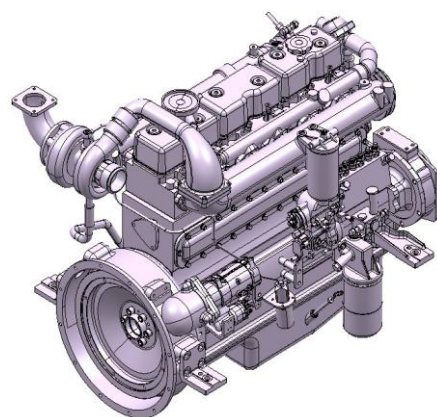


POWER RATING

Intermittent rating kW(PS) / rpm	Max. torque N.m(kg.m) / rpm	Fuel consumption g/kW.h(g/PS.h) / rpm
173 (235) / 2,450	902 (92) / 1,400	230 (169) / 2,450

- The engine performance corresponds to ISO 3046
- Continuous power rating is to 129kW(175ps) @2200rpm.



MECHANICAL SYSTEM

- Engine Model PU086T
- Engine Type In-line 4 cycle, water cooled
Turbo charged
- Combustion type Direct injection
- Cylinder Type Replaceable dry liner
- Number of cylinders 6
- Bore x stroke 111(4.37) x 139(5.47) mm(in.)
- Displacement 8.071(492.49) lit.(in3)
- Compression ratio 16.7 : 1
- Firing order 1-5-3-6-2-4
- Injection timing 18° BTDC
- Compression pressure Above 28 kg/cm²(398 psi) at 200rpm
- Dry weight Approx. 790 kg (1,741 lb)
- Dimension (LxWxH) 1,183 x 824 x 1,074 mm
(46.5 x 32.4 x 42.2 in.)
- Rotation Counter clockwise viewed from Flywheel
- Fly wheel housing SAE NO.2M
- Fly wheel Clutch NO.11 1/2M

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 | 16 deg. BTDC | 36 deg. ABDC |
| ○ Exhaust valve | 46 deg. BBDC | 14 deg. ATDC |

OPTION & ACCESSORY PARTS

- Engine parts Fly wheel & housing
Intake & exhaust manifold
- Accessory parts -
- Electrical parts Gauge panel & stop solenoid

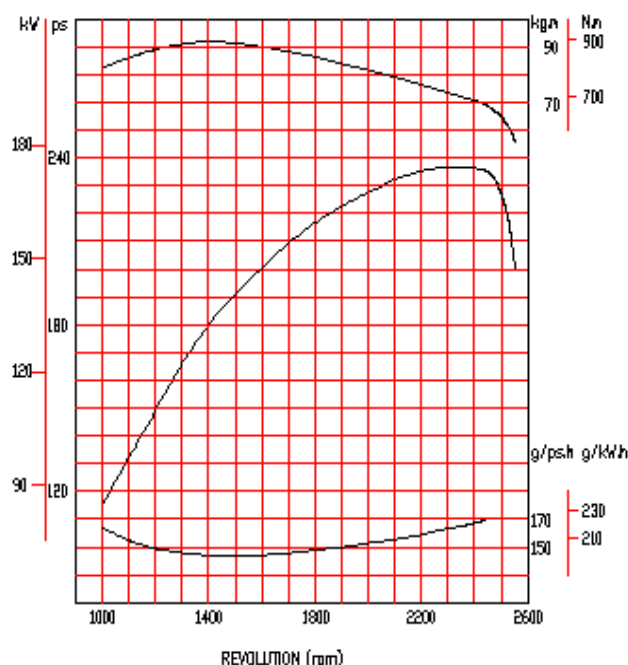
FUEL SYSTEM

- Injection pump Zexel in-line "AD" type
- Governor RSV type(all speed control)
- Feed pump Mechanical type
- Injection nozzle Multi hole type
- Opening pressure 214 kg/cm² (3,044 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 15 liters (4.09 gal.)
Low level 12 liters (3.17 gal.)
- Angularity limit Front down 25 deg.
Front up 25 deg.
Side to side 25 deg.
- Lub. Oil Refer to Operation Manual

PERFORMANCE CURVE



COOLING SYSTEM

- Cooling method Fresh water forced circulation
- Water capacity 14 liters (3.70 gal.)
(engine only)
- Pressure system Max. 0.5 kg/cm² (7.1 psi)
- Water pump Centrifugal type driven by belt
- Water pump Capacity 273 liters (60.1 gal.)/min
at 2,450 rpm (engine)
- Thermostat Wax – pellet type
Opening temp. 71°C
Full open temp. 85°C

ELECTRICAL SYSTEM

- Charging generator 24V x 45A alternator
- Voltage regulator Built-in type IC regulator
- Starting motor 24V x 4.5kW
- Battery Voltage 24V
- Battery Capacity 100 AH [or 150 AH](recommended)

ENGINEERING DATA

- Water flow 273 liters/min @2,450 rpm
- Heat rejection to coolant 37.1 kcal/sec @2,450 rpm
- Air flow 9.0 m³/min @2,450 rpm
- Exhaust gas flow 10.3 m³/min @2,450 rpm
- Exhaust gas temp. 537 °C @2,450 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 14.223	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	

