

PU086T P-DRIVE

© POWER RATING

Intermittent rating kW(PS) / rpm	Max. torque N.m(kg.m) / rpm	Fuel consumption g/kW.h(g/PS.h) / rpm
151 (205) / 2,200	793 (80.8) / 1,400	216 (159) / 2,200

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



© MECHANICAL SYSTEM

○ Engine Model PU086T

○ Engine Type In-line 4 cycle, water cooled

Turbo charged

O Combustion type Direct injection

O Cylinder Type Replaceable dry liner

Number of cylinders6

○ Bore x stroke 111(4.37) x 139(5.47) mm(in.)

○ Displacement 8.071(492.49) lit.(in3)

○ Compression ratio
 ○ Firing order
 ○ Injection timing
 1-5-3-6-2-4
 ○ BTDC

○ Compression pressure Above 28 kg/cm²(398 psi) at 200rpm

○ Dry weight Approx. 780 kg (1,720 lb)
 ○ Dimension 1,277 x 824 x 1,001 mm (LxWxH) (50.3 x 32.4 x 39.4 in.)

• Rotation Counter clockwise viewed from Flywheel

OFly 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 partsElectrical partsRaditor, silencer & air cleanerGauge 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 typeOil pump Gear type driven by crankshaft

○ Oil filter Full flow, cartridge type

○ Oil pan capacity High level 15 liters (4.09 gal.)

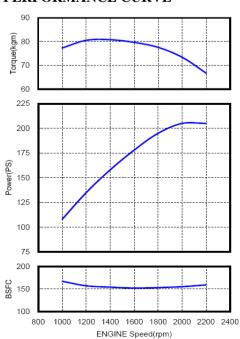
Low level 12 liters (3.17 gal.)

○ Angularity limit Front down 25 deg.

Front up 25 deg. Side to side 25 deg.

○ Lub. Oil Refer to Operation Manual

© PERFORMANCE CURVE





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© COOLING SYSTEM

○ Cooling method Fresh water forced circulation

○ Water capacity 14 liters (3.70 gal.)

(engine only)

○ Water pump Capacity 190 liters (41.8 gal.)/min

at 2,200 rpm (engine)

○ Thermostat Wax – pellet type

Opening temp. 71°C

Full open temp. 85°C

○ Cooling fan Blower type, steel

590 mm diameter, 6 blade

© ENGINEERING DATA

○ Water flow
 ○ Heat rejection to coolant
 ○ Air flow
 190 liters/min @2,200 rpm
 21.0 kcal/sec @2,200 rpm
 15.3 m³/min @2,200 rpm

○ Exhaust gas flow 18.0 m³/min @2,200 rpm

○ Exhaust gas temp. 530 °C @2,200 rpm

○ Max. permissible restrictions

-.Intake system 220 mmH₂O initial

635 mmH₂O final

-.Exhaust system 1,000 mmH₂O max.

© ELECTRICAL SYSTEM

○ Charging generator 24V x 45A [or 12V x 26A] alternator

○ Voltage regulator Built-in type IC regulator

○ Starting motor 24V x 4.5kW [or 12V x 2.5kW]

○ Battery Voltage 24V [or 12V]

○ Battery Capacity 100 AH [or 150 AH](recommended)

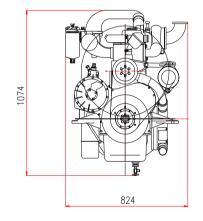
○ Starting aid (Option) Block heater

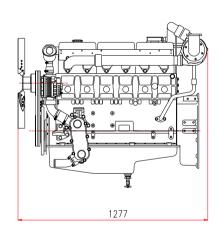
◆ CONVERSION TABLE

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/cm2 x 14.223: kW = 0.2388 kcal/s

in3 = 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

 $1b = kg \times 2.20462$





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* Speccifications are subject to change without prior notice