

PU158TI 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
397 (540) / 2100	2117 (216) / 1500	222 (163) / 2100

- 1. The engine performance corresponds to ISO 3046, DIN 6270B.
- 2. If needs continuous duty, Engine power is restricted to 353kW(480ps) @1800rpm.



© MECHANICAL SYSTEM

○ Engine Model PU158TI

○ Engine Type V-type 4 cycle, water cooled

Turbo charged & intercooled

○ Combustion type Direct injection

O Cylinder Type Replaceable wet liner

• Number of cylinders 8

○ Bore x stroke 128(5.04) x 142(5.59) mm(in.)

O Displacement 14.618(892.0) lit.(in³)

○ Compression ratio 15:1

○ Firing order 1-5-7-2-6-3-4-8

○ Injection timing 18° BTDC

O Dry weight Approx. 950 kg (2,094 lb)

O Dimension 1,484 x 1,389 x 1,161.5 mm (LxWxH) (58.4 x 54.7 x 45.7 in.)

O Rotation Counter clockwise viewed from Flywheel

○ Fly wheel housing SAE NO.1M

OFly wheel Clutch NO.14M

© MECHANISM

OType Over head valve

○ Number of valve Intake 1, exhaust 1 per cylinder○ Valve lashes at cold Intake 0.25mm (0.0098 in.)

Exhaust 0.35mm (0.0138 in.)

OVALVE TIMING

	Opening	Close
○ Intake valve	24 deg. BTDC	36 deg. ABDC
○ Exhaust valve	63 deg. BBDC	27 deg. ATDC

© OPTION & ACCESSORY PARTS

• Engine parts Fly wheel & housing

Intake & exhaust manifold

O Accessory parts Raditor, silencer & air cleaner

• Electrical parts Gauge panel & stop solenoid

© FUEL SYSTEM

○ Injection pump	Bosch in-line "P" type
○ Governor	Mechanical type
○ Feed pump	Mechanical type
○ Injection nozzle	Multi hole type
○ Eval filton	Evil flory contrides type

○ 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 21 liters (5.55 gal.)

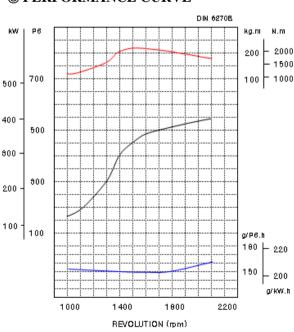
Low level 17 liters (4.50 gal.)

○ Angularity limit Front down 35 deg.

Front up 35 deg. Side to side 35 deg.

○ Lub. Oil Refer to Operation Manual

© PERFORMANCE CURVE





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© COOLING SYSTEM

○ Cooling method Fresh water forced circulation

• Water capacity 20 liters (5.28 gal.)

(engine only)

Max. 0.5 kg/cm^2 (7.1 psi) ○ Pressure system ○ Water pump Centrifugal type driven by belt

O Water pump Capacity 454 liters (120 gal.)/min

at 2,100 rpm (engine)

○ Thermostat Wax – pellet type

Opening temp. 79°C

Full open temp. 94°C

○ Cooling fan Blower type, plastic

915 mm diameter, 7 blade

© ENGINEERING DATA

O Water flow 454 liters/min @2,100 rpm ○ Heat rejection to coolant 45.2 kcal/sec @2,100 rpm

○ Heat rejection to CAC 18.8 kcal/sec @2,100 rpm 34.5 m³/min @2,100 rpm

87.4 m³/min @2,100 rpm ○ Exhaust gas flow

○ Exhaust gas temp. 600 °C @2,100 rpm

○ Max. permissible restrictions

○ Air flow

-.Intake system 220 mmH₂O initial

635 mmH₂O final

-. Exhaust system 1000 mmH₂O max.

© ELECTRICAL SYSTEM

 Charging generator 24V x 45A alternator ○ Voltage regulator Built-in type IC regulator

○ Starting motor 24V x 7.0kW

OBattery Voltage 24V

O Battery Capacity 200 AH (recommended)

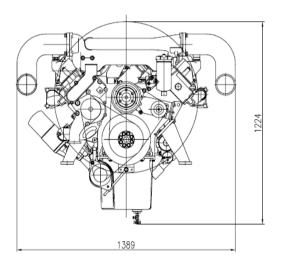
○ Starting aid (Option) Block heater

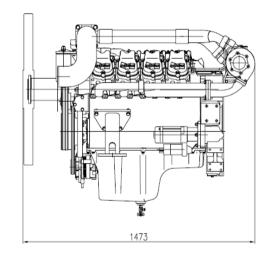
◆ CONVERSION TABLE

in. $= mm \times 0.0394$ $lb/ft = N.m \times 0.737$ $PS = kW \times 1.3596$ U.S. gal = lit. $\times 0.264$ $psi = kg/cm2 \times 14.2233$ kW = 0.2388 kcal/s

in3 = lit. x 61.02 $1b/PS.h = g/kW.h \times 0.00162$ $cfm = m^3/min \times 35.336$ $hp = PS \times 0.98635$

 $1b = kg \times 2.20462$







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