PU086T P-DRIVE

◎ **Production tolerance : ±3%**

Intermittent rating kW(PS) / rpm	Max. torque N.m(kg.m) / rpm	Fuel consumption g/kW.h(g/PS.h) / rpm
149 (205) / 2,200	826 (84.3) / 1,400	254 (187) / 2,200

Note : -. The engine performance corresponds to ISO 3046.

◎ 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	16.8 : 1
○ Firing order	1-5-3-6-2-4
○ Injection timing	12° BTDC
○ Compression pressure	Above 28 kg/cm^2(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

◎ 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

◎ 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.)

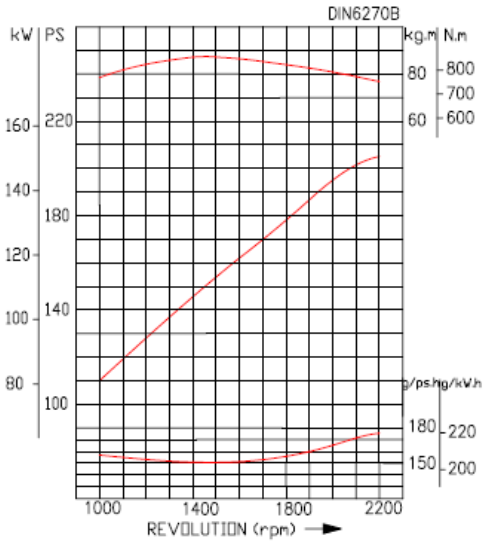
◎ VALVE TIMING

	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	Raditor, silencer & air cleaner
○ Electrical parts	Gauge panel & stop solenoid

◎ PERFORMANCE CURVE



◎ COOLING SYSTEM

○ Cooling method	Fresh water forced circulation
○ Water capacity (engine only)	14 liters (3.70 gal.)
○ Pressure system	Max. 0.9 kg/cm^2 (12.8 psi)
○ Water pump	Centrifugal type driven by belt
○ 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	190 liters/min @2,200 rpm
○ Heat rejection to coolant	21.0 kcal/sec @2,200 rpm
○ Air flow	15.3 m^3/min @2,200 rpm
○ Exhaust gas flow	18.0 m^3/min @2,200 rpm
○ Exhaust gas temp.	530 °C @2,200 rpm
○ Max. permissible restrictions	
-.Intake system	220 mmH_2O initial 635 mmH_2O final
-.Exhaust system	1,000 mmH_2O 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
lb = kg x 2.20462