P126TI G-DRIVE

◎ POWER RATING

Engine Speed rev/min	Type of Operation	Engine Power	
		kWm	Ps
1800	Continuous Power	247	336
	Prime Power	278	378
	Standby Power	298	405
1500	Continuous Power	206	280
	Prime Power	241	328
	Standby Power	272	370
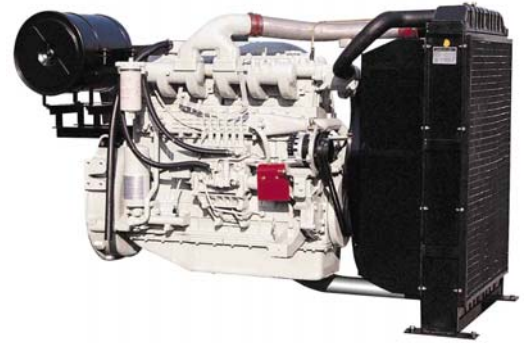
Note : -. The engine performance corresponds to ISO 3046, BS 5514 and DIN 6271.

-. Ratings are based on ISO 8528.

→ **Prime power** available at variable load. The permissible average power out put (during 24h period) shell not exceed 70% of the prime power rating.

→ **Standby power** available in the event of a main power network failure. No overload is permitted.

◎ MECHANICAL SYSTEM

○ Engine Model   P126TI

○ Engine Type   In-line 4cycle, water cooled

     Turbo charged & intercooled (air to air)

○ 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   16° BTDC

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

○ Dry weight   Approx. 910 kg (2,006 lb)

○ Dimension   1,383 x 870 x 1,207 mm

   (LxWxH)   (54.4 x 34.3 x 47.5 in.)

○ Rotation   Counter clockwise viewed from Flywheel

○ Fly wheel housing   SAE NO.1

○ Fly wheel   Clutch NO.14

◎ MECHANISM

○ Type   Over head valve

○ Number of valve   Intake 1, exhaust 1 per cylinder

○ Valve lashes at cold   Intake 0.30mm (0.0118 in.)

     Exhaust 0.30mm (0.0118 in.)

◎ VALVE TIMING

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

◎ FUEL CONSUMPTION

○ **Prime Power** (lit/hr)	**1,500 rpm**	**1,800 rpm**
25%	16.4	20.3
50%	30.0	36.2
75%	43.6	52.3
100%	58.1	70.3

○ **Standby Power** (lit/h)	**1,500 rpm**	**1,800 rpm**
25%	18.3	21.5
50%	33.4	38.7
75%	49.1	56.3
100%	66.2	76.5

◎ FUEL SYSTEM

○ Injection pump   Zexel in-line "P" type

○ Governor   Electric type

○ 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

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◎ COOLING SYSTEM

○ Cooling method   Fresh water forced circulation

○ Water capacity   19 liters (5.02 gal.)
   (engine only)

○ Pressure system   Max. 0.9 kg/cm^2 (12.8 psi)

○ Water pump   Centrifugal type driven by gear

○ Water pump Capacity   320 liters (84.5 gal.)/min
   at 1,800 rpm (engine)

○ Thermostat   Wax – pellet type
   Opening temp. 71°C
   Full open temp. 85°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   265 liters/min @1,500 rpm

○ Heat rejection to coolant   25.5 kcal/sec @1,500 rpm

○ Heat rejection to CAC   7.2 kcal/sec @1,500 rpm

○ Air flow   16.4 m^3/min @1,500 rpm

○ Exhaust gas flow   42.9 m^3/min @1,500 rpm

○ Exhaust gas temp.   560 °C @1,500 rpm

○ Water flow   320 liters/min @1,800 rpm

○ Heat rejection to coolant   29.0 kcal/sec @1,800 rpm

○ Heat rejection to CAC   12.0 kcal/sec @1,800 rpm

○ Air flow   23.0 m^3/min @1,800 rpm

○ Exhaust gas flow   58.1 m^3/min @1,800 rpm

○ Exhaust gas temp.   510 °C @1,800 rpm

○ Max. permissible restrictions

   ⁻.Intake system   220 mmH$_2$O initial
     635 mmH$_2$O final

   ⁻.Exhaust system   600 mmH$_2$O 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/cm2 x 14.2233   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
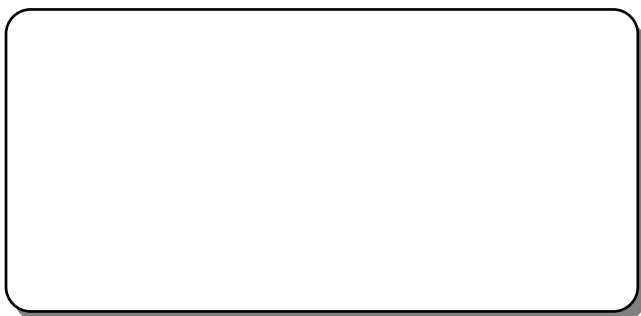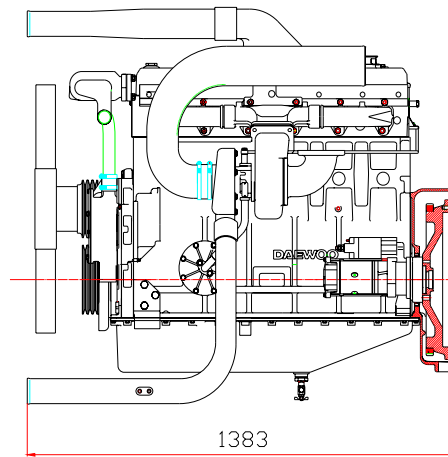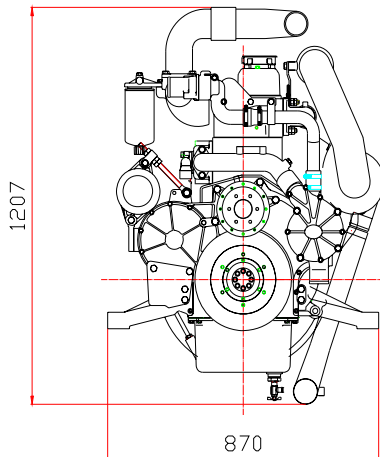
※ Speccifications are subject to change without prior notice