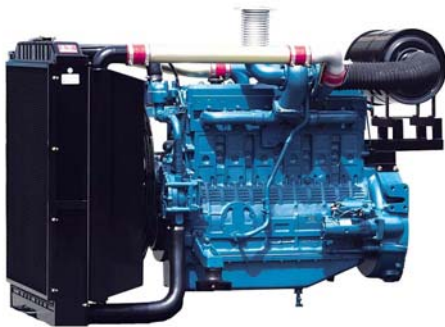


# P126TI G-DRIVE

## ◎ POWER RATING

Engine Speed rev/min	Type of Operation	Engine Power	
		kWm	Ps
1800	Prime Power	278	378
	Standby Power	298	405
1500	Prime Power	241	328
	Standby Power	272	370



- . The engine performance corresponds to ISO 3046, BS 5514 and DIN 6271.
- . Ratings are based on ISO 8528. (If you need more information, contact the sales organization.)
  - **Prime power** is available for an unlimited number of hours per year in a variable load application.  
The permissible average power output over 24 hours of operation shall not exceed 70% of the prime power rating.
  - **Standby power** is available in the event of a utility power outage or under test conditions for up to 200h of operation per year.  
The permissible average power output over 24 hours of operation shall not exceed 70% of the standby power rating.  
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.(in3)
- 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 (LxWxH) 1,383 x 870 x 1,207 mm  
(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 0.30 mm (0.0118 in.)  
Exhaust 0.30 mm (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/hr) | 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/cm2 (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

# P126TI G-DRIVE

### ◎ COOLING SYSTEM

- Cooling method            Fresh water forced circulation
- Water capacity            19 liters ( 5.02 gal.)  
(engine only)
- Pressure system           Max. 0.5 kg/cm<sup>2</sup> ( 7.11 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<sup>3</sup>/min @1,500 rpm
- Exhaust gas flow         42.9 m<sup>3</sup>/min @1,500 rpm
- Exhaust gas temp.        560 °C @1,500 rpm

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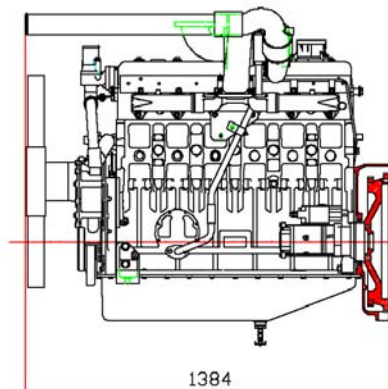
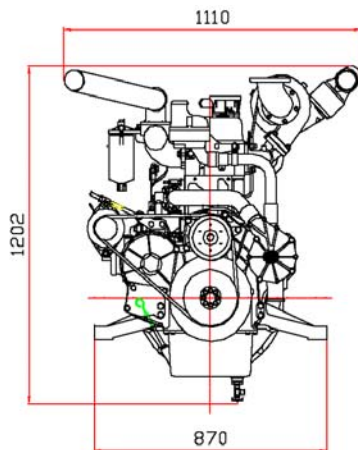
- Water flow                320 liters/min @1,800 rpm
- Heat rejection to coolant 29.0 kcal/sec @1,800 rpm
- Heat rejection to CAC    12.0 kcal/sec @1,800 rpm
- Air flow                    23.0 m<sup>3</sup>/min @1,800 rpm
- Exhaust gas flow         58.1 m<sup>3</sup>/min @1,800 rpm
- Exhaust gas temp.        510 °C @1,800 rpm

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- Max. permissible restrictions
  - .Intake system            220 mmH<sub>2</sub>O initial  
635 mmH<sub>2</sub>O final
  - .Exhaust system         600 mmH<sub>2</sub>O max.
- Max. permissible altitude 1500 m

### ◆ 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 <sup>2</sup> x 14.2233 | kW = 0.2388 kcal/s                 |
| in <sup>3</sup> = lit. x 61.02     | lb/PS.h = g/kW.h x 0.00162         |
| hp = PS x 0.98635                  | cfm = m <sup>3</sup> /min x 35.336 |
| lb = kg x 2.20462                  |                                    |



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※ Specifications are subject to change without prior notice