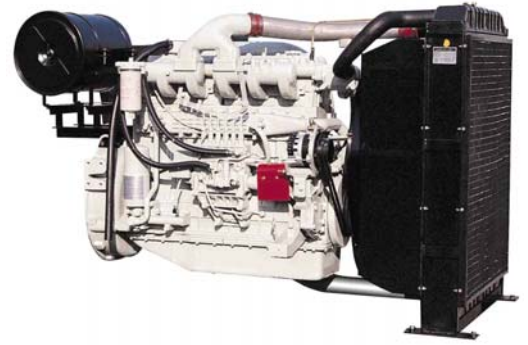


# P126TI G-DRIVE

## ◎ 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) shall 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<sup>3</sup>)
- Compression ratio      17 : 1
- Firing order            1-5-3-6-2-4
- Injection timing        16° BTDC
- Compression pressure  Above 28 kg/cm<sup>2</sup>(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<sup>2</sup> (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

## ◎ COOLING SYSTEM

- Cooling method Fresh water forced circulation
- Water capacity 19 liters ( 5.02 gal.)  
(engine only)
- Pressure system Max. 0.9 kg/cm<sup>2</sup> ( 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

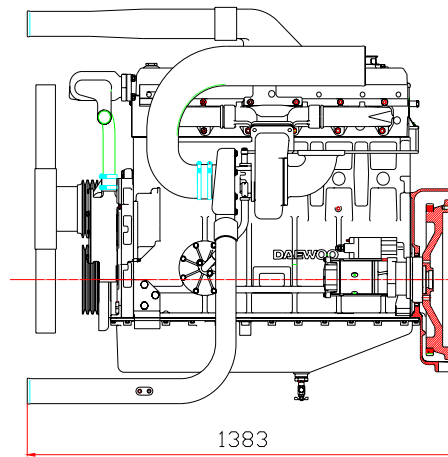
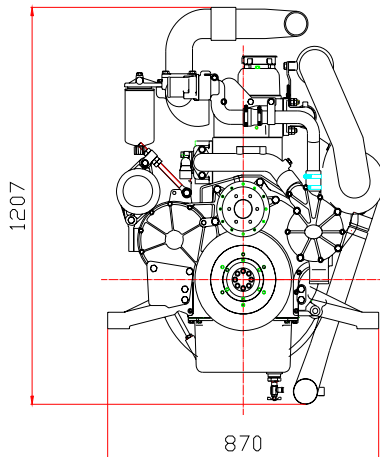
- Charging generator 24V x 45A alternator
- Voltage regulator Built-in type IC regulator
- Starting motor 24V x 6.0kW
- Battery Voltage 24V
- Battery Capacity 150 AH (recommended)
- Starting aid (Option) Block heater

## ◎ 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 <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                   |
- 
- |                             |                                     |
|-----------------------------|-------------------------------------|
| ○ 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                   |
- 
- 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.

## ◆ 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                  |                                    |



### Head office

7-11, Hwasu-Dong, Dong-Gu, Incheon, Korea  
**TEL : 82-32-760-1437, 1964 FAX : 82-32-760-1964**

### Seoul Office

Doosan Infracore Co. Ltd.,  
 22nd Floor, Doosan Tower, 18-12, Euljiro 6-ga, Jung-gu,  
 Seoul, Korea.

**TEL : 82-2-3398-8521~8535 FAX : 82-2-3398-8509**

**Web site : www.doosaninfracore.com**

※ Specifications are subject to change without prior notice