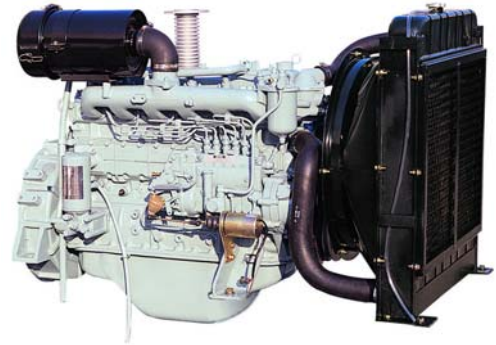


◎ Production tolerance : ±3%

Intermittent rating kW(PS) / rpm	Max. torque N.m(kg.m) / rpm	Fuel consumption g/kW.h(g/PS.h) / rpm
<b>85 (116) / 2,800</b>	<b>353 (36) / 1,600</b>	<b>245 (180) / 2,800</b>

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



### ◎ MECHANICAL SYSTEM

- Engine Model            PU066
- Engine Type            In-line 4 cycle, water cooled  
                                 Naturally aspirated
- Combustion type        Direct injection
- Cylinder Type          Replaceable dry liner
- Number of cylinders    6
- Bore x stroke            102(4.02) x 118(4.65) mm(in.)
- Displacement            5.785(353) lit.(in3)
- Compression ratio      17.5 : 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. 450 kg (992 lb)
- Dimension              1,155 x 705 x 774.5 mm  
(LxWxH)                    (45.5 x 27.8 x 30.5 in.)
- Rotation                 Counter clockwise viewed from Flywheel

### ◎ MECHANISM

- Type                      Over head valve
- Number of valve        Intake 1, exhaust 1 per cylinder
- Valve lashes at cold    Intake 0.40 mm(0.0157 in.)  
                                 Exhaust 0.40 mm(0.0157 in.)

### ◎ VALVE TIMING

- |                 | Opening      | Close        |
|-----------------|--------------|--------------|
| ○ Intake valve  | 28 deg. BTDC | 62 deg. ABDC |
| ○ Exhaust valve | 70 deg. BBDC | 28 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

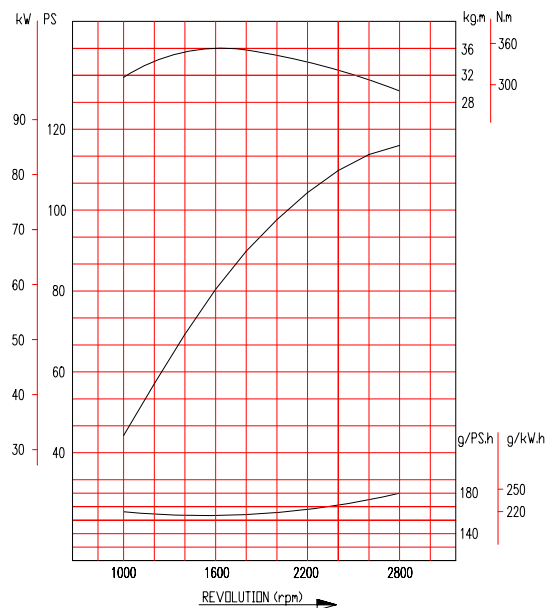
### ◎ FUEL SYSTEM

- Injection pump        Zexel in-line "A" type
- Governor              RSV type(all speed control)
- 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 13 liters(3.432 gal.)  
                                 Low level 10 liters(2.64 gal.)
- Angularity limit        Front down 25 deg.  
                                 Front up 25 deg.  
                                 Side to side 25 deg.
- Lub. Oil                 Refer to Operation Manual

### ◎ PERFORMANCE CURVE



## ◎ COOLING SYSTEM

- Cooling method Fresh water forced circulation
- Water capacity 12 liters(3.17 gal.)  
(engine only)
- Pressure system Max. 0.9 kg/cm<sup>2</sup> ( 12.8 psi)
- Water pump Centrifugal type driven by belt
- Water pump Capacity 220 liters (58.1 gal.)/min  
at 2,800 rpm (engine)
- Thermostat Wax – pellet type  
Opening temp. 71°C  
Full open temp. 85°C
- Cooling fan Blower type, steel  
520 mm diameter, 6 blade

## ◎ ELECTRICAL SYSTEM

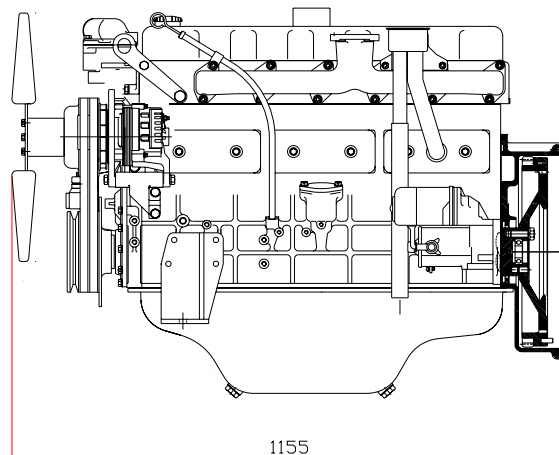
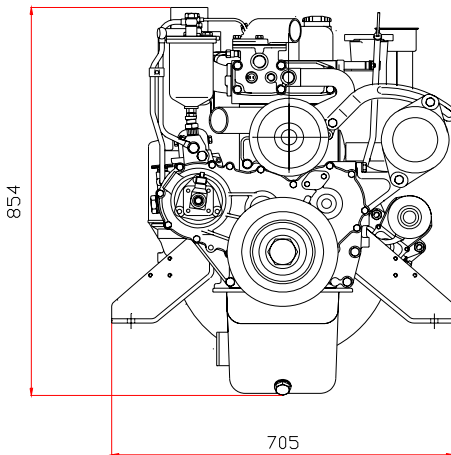
- Charging generator 24V x 45A [or 12V x 26A ] alternator
- Voltage regulator Built-in type IC regulator
- Starting motor 24V x 4.5kW [or 12V x 2.5kW ]
- Battery Voltage 24V [or 12V ]
- Battery Capacity 100 AH [or 150 AH ](recommended)
- Starting aid (Option) Block heater

## ◎ ENGINEERING DATA

- Water flow 220 liters/min @2,800 rpm
- Heat rejection to coolant 14.9 kcal/sec @2,800 rpm
- Air flow 6.9 m<sup>3</sup>/min @2,800 rpm
- Exhaust gas flow 18.6 m<sup>3</sup>/min @2,800 rpm
- Exhaust gas temp. 570 °C @2,800 rpm
- Max. permissible restrictions
  - Intake system 220 mmH<sub>2</sub>O initial  
635 mmH<sub>2</sub>O final
  - Exhaust system 1,000 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 14.223 | 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                 |                                    |



++++ Sahabat - Waskita +++++