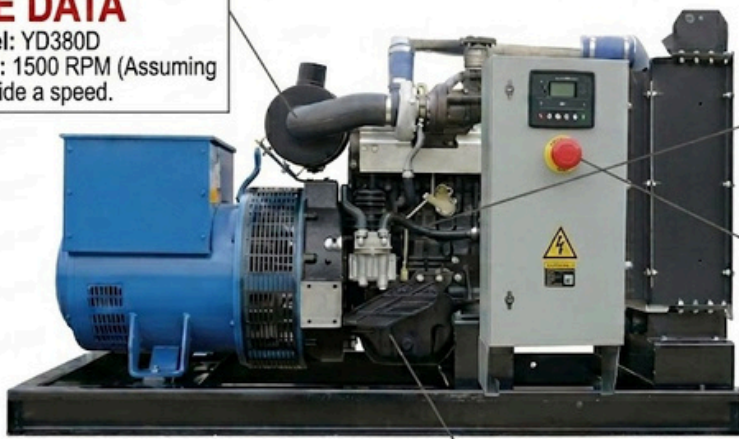


YD380D ENGINE TECHNICAL DATA SHEET

1.Engine Ratings 10KVA

| PARAMETER | UNIT | VALUE (1500 RPM) | VALUE (1800 RPM) |
|------------------------------------|------|------------------|------------------|
| Generator set Frequency | Hz | 50 | 60 |
| Engine Standby Power (LTP) | kW | 11 | 13.2 |
| Engine Prime Power (PRP) | kW | 10 | 12 |
| Engine Continuous Power (COP) | kW | 10 | 12 |
| Cooling Fan Power Consumption (KW) | kW | 1.2 | 1.5 |
| Engine Net Standby Output (LTP) | kW | 9.3 | 11.2 |
| Engine Net Prime Output (PRP) | kW | 8.5 | 10.2 |
| Engine Net Continuous Output (COP) | kW | 8.5 | 10.2 |

ISUZU
ENGINE DATA
 Engine Model: YD380D
 Rated Speed: 1500 RPM (Assuming 50Hz, to provide a speed.)



MAJOR COMPONENTS

A comprehensive listing of engine and generator specifications.

PERFORMANCE DATA

Speed Rate: 1500 RPM
 Prime Power: 400 KW (500 KVA)
 Standby Power: 440 KW (550 KVA)

CONTROL PANEL (DSE)

RADIATOR & COOLING

Cooling: Anti-vibrating Isolators
 Monitoring: High Water Temperature shutdown alarm
 Coolant Monitoring: Low Water Level alarm

STAMFORD ALTERNATOR DATA

MODEL: TAL-042-C
 RATING (PRP @ 1500rpm): 43 kW (COP)

2. General Specification

| PARAMETER | UNIT | VALUE (1500 RPM) |
|--|--------|------------------|
| Length / Width / Height | mm | 587 / 474 / 628 |
| Engine Dry Weight (w/o Cooling System) | kg | 165 |
| Aspiration Type / Injection Type | — | Natural / Direct |
| Configuration / No. of Cylinders | — | Vertical / 3 |
| Displacement | liters | 1.357 |
| Bore / Stroke | mm | 80 / 90 |
| Compression Ratio | — | 22 |
| Piston Speed | m/s | 4.5 / 5.4 |
| Rotation Direction (from flywheel) | — | Anti-clockwise |
| Number of Flywheel Teeth / House Size | — | 115 / SAE4 |

3. Lubrication System

| PARAMETER | UNIT | VALUE (1500 RPM) |
|------------------------------------|--------|--------------------------|
| Lube Oil Specification | — | CD40 |
| Oil Capacity | liters | 4 |
| Max. Permissible Oil Temperature | °C | 110 |
| Low Oil Pressure Warning /Shutdown | kPa | 100 |
| Oil Consumption | % | 70% of fuel consumption) |

4. Cooling System

| PARAMETER | UNIT | VALUE (1500 RPM) |
|---|-------------------|------------------|
| Coolant Capacity For Engine | Liters | 6 |
| Max. Permissible / Warning Temperature | °C | 85 / 85 |
| Max. Coolant Shutdown Temperature | °C | 95 |
| Thermostat Open Temperature | °C | 75 |
| Flow Of Coolant Pump | m ³ /h | ≥80 |
| Heat dissipation (engine radiator) | kW | - |
| Heat dissipation (convection) | kW | - |

5. Fuel System

| PARAMETER | UNIT | 1500 RPM (50HZ) | VALUE (60HZ) |
|--------------------------------------|---------|-----------------|--------------|
| Governor type | - | Mechanical | Mechanical |
| Fuel Consumption at 25% PRM | l/h | 1.43 | 1.79 |
| Fuel Consumption at 50% PRM | l/h | 2.23 | 2.79 |
| Fuel Consumption at 75% PRM | l/h | 2.86 | 3.34 |
| Fuel Consumption at 100% PRM | l/h | 3.1 | 3.69 |
| Lowest fuel consumption ratio | g/kW.hr | 260 | 261 |

6. Intake & Exhaust System

| PARAMETER | UNIT | 1500 RPM | 1800 RPM |
|---|---------------------|----------|----------|
| Combustion Air Consumption | m ³ /min | 0.68 | 0.82 |
| Max. Intake Restriction | kPa | 101 | 101 |
| Max. Exhaust Temperature (After Turbo) | °C | 500 | 500 |
| Max. Exhaust Back Pressure | kPa | 6 | 6 |
| Exhaust Flange Diameter | mm | 74 | 74 |

7. Electrical System

| PARAMETER | UNIT | VALUE |
|---|--------|---------|
| Charging Alternator Voltage / Capacity | V / A | 12 / 25 |
| Starting Voltage / Motor Capacity | V / KW | 12 / 3 |
| Minimum Battery Capacity | Ah | 80 |
| Min. Ambient Temp (Unaided Cold Start) | °C | -10 |