

MEPL 33 ISUZU-YD ENGINE TECHNICAL DATA SHEET

| 1. Engine Ratings for Generator application | | Y495D | |
|---|--------|----------------|------|
| Engine Rated Speed | rpm | 1500 | 1800 |
| Generator set Frequency | Hz | 50 | 60 |
| Engine Standby Power (LTP) | kW | 28,6 | 31,9 |
| Engine Prime Power (PRP) | kW | 26 | 29 |
| Engine Continuous Power (COP) | kW | 26 | 29 |
| Cooling Fan Power Consumption (kW) | kW | 1,5 | 2 |
| Engine Net Standby Output (LTP) | kW | 26,6 | 29,3 |
| Engine Net Prime Output (PRP) | kW | 24,2 | 26,7 |
| Engine Net Continuous Output (COP) | kW | 24,2 | 26,7 |
| 2. General Specification | | | |
| Length | mm | 716 | |
| Width | mm | 530 | |
| Height | mm | 670 | |
| Engine Dry Weight w/o Cooling System | kg | 240 | |
| Aspiration Type | | Natural | |
| Injection Type | | Direct | |
| Configuration | | Vertical | |
| No. of Cylinders | | 4 | |
| Displacement | liters | 2,977 | |
| Bore | mm | 95 | |
| Stroke | mm | 105 | |
| Compression Ratio | | 18 | |
| Piston Speed | m/s | 5.25/6.3 | |
| Rotation Direction (from flywheel) | | Anti-clockwise | |
| Number of Flywheel Teeth | | 119 | |
| Flywheel House Size | | SAE4 | |
| 3. Lubrication System | | | |
| Lube Oil Specification | | CD40 | |
| Oil Capacity | liters | 7,6 | |
| Max. Permissible Oil Temperature | °C | 110 | |
| Low Oil Pressure Warning | kPa | 100 | |
| Low Oil Pressure Shutdown | kPa | 100 | |
| Oil consumption (as % of fuel consumption) | | 0,72% | |

| 4. Cooling System | | | |
|--|---------------------|------------|------|
| Coolant Capacity for Engine | Liters | 10,7 | |
| Max. Permissible Temperature | °C | 85 | |
| Max. Coolant Warning Temperature | °C | 85 | |
| Max. Coolant Shutdown Temperature | °C | 95 | |
| Thermostat Open Temperature | °C | 75 | |
| Radiator Cooling Flow | m ³ /min | | |
| Flow of Coolant pump | m ³ /h | ≥270 | ≥270 |
| Heat dissipation (engine radiator) | kW | | |
| Heat dissipation (convection) | kW | | |
| 5. Fuel System | | | |
| Governor Type | | Mechanical | |
| Fuel Consumption at 25% of generator set prime output | l/h | 2.91 | |
| Fuel Consumption at 50% of generator set prime output | l/h | 3.67 | |
| Fuel Consumption at 75% of generator set prime output | l/h | 4.15 | |
| Fuel Consumption at 100% of generator set prime output | l/h | 4.87 | |
| Lowest Fuel Consumption Ratio | g/kW.hr | | |
| 6. Intake & Exhaust System (On Standby Output) | | | |
| Combustion Air Consumption | m ³ /min | 1,69 | 1,88 |
| Max. Intake Restriction | kPa | 101 | |
| Max. Exhaust Temperature (Before Turbo) | °C | | |
| Max. Exhaust Temperature (After Turbo) | °C | 500 | 500 |
| Max. Exhaust Back Pressure | kPa | 6 | |
| Exhaust Gas Flow | m ³ /min | | |
| Exhaust Flange Diameter | mm | 74 | |
| 7. Electrical System | | | |
| Charging Alternator Voltage | V | 12 | |
| Charging Alternator Capacity | A | | |
| Starting Voltage | V | 12 | |
| Starting Motor Capacity | KW | 3,5 | |
| Minimum Battery Capacity | Ah | 120 | |
| Minimum Ambient Temperature for Unaided Cold Start | °C | -10 | |
| Note : | | | |
| 1. All engine parameters are in accordance with ISO3046, ISO8528 | | | |
| 2. All engine parameters are based on 25°C / 100kPa environment condition | | | |
| 3. No power decrease with below 40°C environment temperature and 1500 meter altitude | | | |
| 4. More than 40°C and 1500m above sea level , decrease 0.5% per 1°C , and 4% per 300m. | | | |
| 5. At calorific value 42700 kJ/kg + 5%, density 0,835 kg/dm ³ , temperature 280 K | | | |
| 6. Above data is only the testing data in our laboratory, it can't used to be the data on all contract | | | |

This datasheet has been prepared by Gucbir Generator / Istanbul for Yang Dong engines.