

YD4EZLD ENGINE TECHNICAL DATA SHEET

1.Engine Ratings 60KVA

PARAMETER	UNIT	VALUE (1500 RPM)	VALUE (1800 RPM)
Generator set Frequency	Hz	50	60
Engine Standby Power (LTP)	kW	66.1	73.5
Engine Prime Power (PRP)	kW	63	70
Engine Continuous Power (COP)	kW	63	70
Cooling Fan Power Consumption (KW)	kW	2	2.5
Engine Net Standby Output (LTP)	kW	63.7	70.6
Engine Net Prime Output (PRP)	kW	60.7	67.2
Engine Net Continuous Output (COP)	kW	60.7	67.2

ISUZU

ENGINE DATA

Engine Model: Y4105ZLD
Induction: Turbocharged

MAJOR COMPONENTS

A comprehensive technical overview of the complete generator set.

PERFORMANCE DATA

Speed Rate: 1500 RPM
Prime Power: 63 kW
Standby Power: 66.1 kW



STAMFORD ALTERNATOR DATA

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



CONTROL PANEL / RADIATOR & COOLING

- Fuel Consumption: 12.3 L/h
- Lube Oil Capacity: 13 Liters
- Coolant Capacity: 6.0 Liters
- Fan: Belt-driven cooling fan

2. General Specification

PARAMETER	UNIT	VALUE
Length /Width/ Height	mm	892 / 618 / 740
Engine Dry Weight (w/o Cooling System)	kg	350
Aspiration Type / Injection Type	—	Turbocharged / Direct
Configuration / No. of Cylinders	—	Vertical / 4
Displacement	liters	4.1
Bore /Stroke	mm	105 / 118
Compression Ratio	—	18
Piston Speed	m/s	5.9/7.08
Rotation Direction (from flywheel)	—	Anti-clockwise
Number of Flywheel Teeth / House Size	—	119/ SAE3

3. Lubrication System

PARAMETER	UNIT	VALUE
Lube Oil Specification	—	CD40
Oil Capacity	liters	10
Max. Permissible Oil Temperature	°C	110
Low Oil Pressure Warning /Shutdown	kPa	100 / 100
Oil Consumption	%	0.82% of fuel consumption)

4. Cooling System

PARAMETER	UNIT	VALUE
Coolant Capacity for Engine	Liters	10.7
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	≥260
Heat dissipation (engine radiator)	kW	-
Heat dissipation (convection)	kw	-

5. Fuel System

PARAMETER	UNIT	1500 RPM (50HZ)	1800 RPM (60HZ)
Governor Type	—	Electronic	Electronic
Fuel Consumption at 25% PRM	l/h	5.17	5.82
Fuel Consumption at 50% PRM	l/h	7.68	8.85
Fuel Consumption at 75% PRM	l/h	9.9	10.3
Fuel Consumption at 100% PRM	l/h	12.3	13.8
Lowest Fuel Consumption Ratio	g/kW.hr	220	220

6. Intake & Exhaust System

PARAMETER	UNIT	1500 RPM	1800 RPM
Combustion Air Consumption	m ³ /min	3.47	3.86
Max. Intake Restriction	kPa	181.8	181.8
Max. Exhaust Temperature (After Turbo)	°C	650	650
Max. Exhaust Back Pressure	kPa	500	500
Exhaust Flange Diameter	mm	84	84

7. Electrical System

PARAMETER	UNIT	VALUE
Charging Alternator Voltage / Capacity	V / A	12or24/ –
Starting Voltage / Motor Capacity	V / KW	12or24/ 4.5or5
Minimum Battery Capacity	Ah	120
Min. Ambient Temp (Unaided Cold Start)	°C	-10