
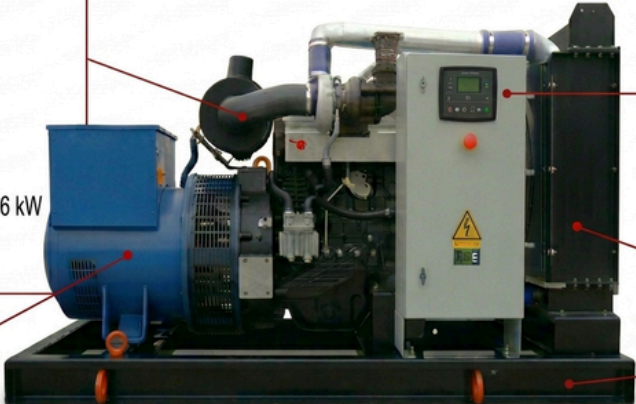


Y4105D ENGINE TECHNICAL DATA SHEET

1.Engine Ratings 45KVA

PARAMETER	UNIT	VALUE (1500 RPM)	VALUE (1800 RPM)
Generator set Frequency	Hz	50	60
Engine Standby Power (LTP)	kW	41.8	49.5
Engine Prime Power (PRP)	kW	38	45
Engine Continuous Power (COP)	kW	38	45
Cooling Fan Power Consumption (KW)	kW	1.5	2
Engine Net Standby Output (LTP)	kW	39.8	46.9
Engine Net Prime Output (PRP)	kW	36.2	42.7
Engine Net Continuous Output (COP)	kW	36.2	42.7

ENGINE MANUFACTURER & SPECIFICATIONS
ISUZU 
ENGINE SPECIFICATIONS
 MODEL: Y4105D
 ENGINE RATED OUTPUT (PRP): 30 kW / 36 kW
 SPEED: 1500 rpm / 1800 rpm
 FREQUENCY: 50 Hz / 60 Hz



MAJOR COMPONENTS

CONTROL PANEL
 CONTROLLER TYPE: DSE
 DISPLAY PARAMETERS: Voltage (V), Current (A), Frequency (Hz), Oil Pressure, Water Temp, Fuel Level. Full Protection.
 [Control panel unit as shown in <IMAGE 0>]

COOLING SYSTEM
 COOLANT CAPACITY: 10.7 Liters
 MAX TEMP: 85°C

BASE FRAME & GENERAL
 LENGTH x WIDTH x HEIGHT: 892 mm x 618 mm x 740 mm
 FUEL TANK: Integrated [Capacity TBD]
 ENGINE DRY WEIGHT (w/o Cooling): 330 kg
 GOVERNOR TYPE: Mechanical

STAMFORD
ALTERNATOR SPECIFICATIONS
 MODEL: [Specific K4100D Alternator model or preserve generic]
 TYPE: Brushless

2. General Specification

PARAMETER	UNIT	VALUE
Length /Width/ Height	mm	892 / 618 / 718
Engine Dry Weight (w/o Cooling System)	kg	330
Aspiration Type / Injection Type	—	Nature /Direct
Configuration / No. of Cylinders	—	Vertical / 4
Displacement	liters	4
Bore /Stroke	mm	105 / 118
Compression Ratio	—	18
Piston Speed	m/s	5.9/7.08
Rotation Direction (from flywheel)	—	Anti-clock
Number of Flywheel Teeth / House Size	—	119/ SAE3

3. Lubrication System

PARAMETER	UNIT	VALUE
Lube Oil Specification	—	CD40
Oil Capacity	liters	10.46
Max. Permissible Oil Temperature	°C	110
Low Oil Pressure Warning /Shutdown	kPa	100 /100
Oil Consumption	%	0.77% 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	—	Mechanical	Mechanical
Fuel Consumption at 25% PRM	l/h	4.17	4.37
Fuel Consumption at 50% PRM	l/h	5.58	6.95
Fuel Consumption at 75% PRM	l/h	6.75	8.68
Fuel Consumption at 100% PRM	l/h	8.8	10.4
Lowest Fuel Consumption Ratio	g/kW.hr	235	235

6. Intake & Exhaust System

PARAMETER	UNIT	1500 RPM	1800 RPM
Combustion Air Consumption	m ³ /min	2.31	2.74
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	84	84

7. Electrical System

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