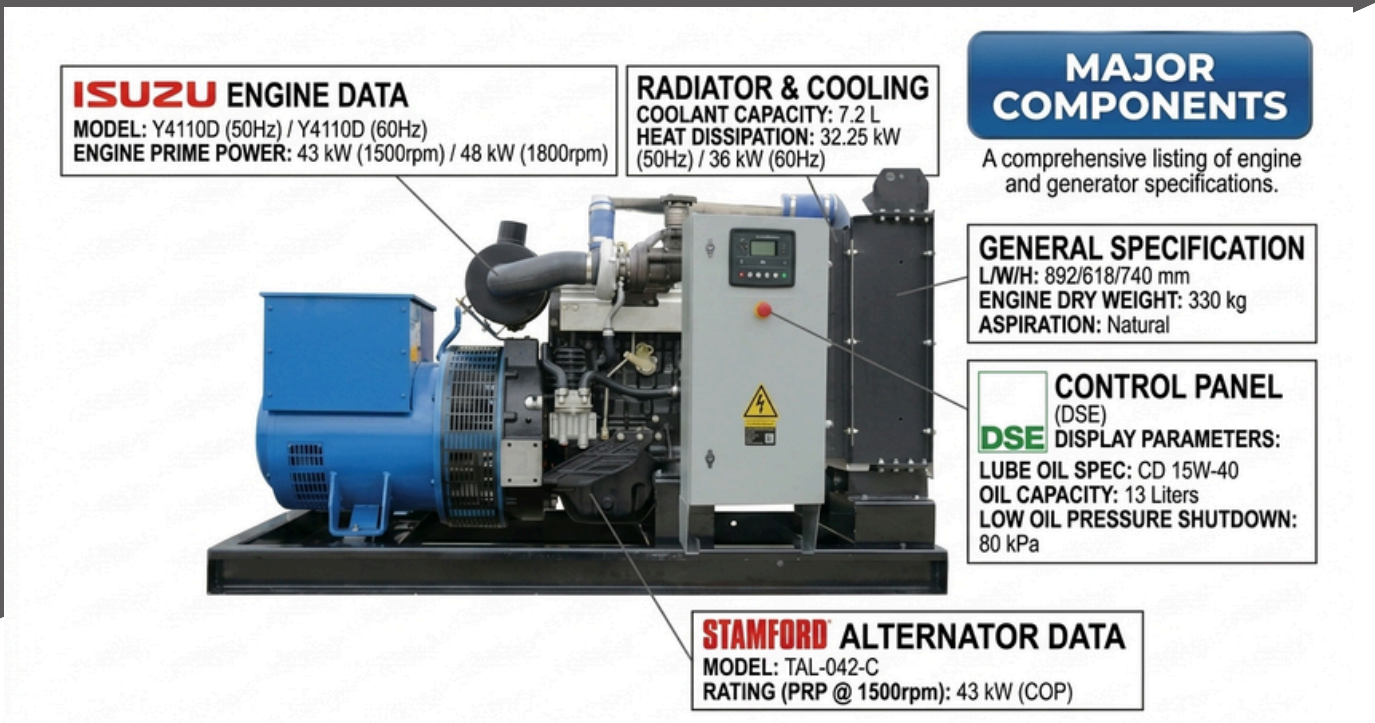
SMART POWER GENERATION

ISUZU

Y4110D ENGINE TECHNICAL DATA SHEET

1.Engine Ratings 50KVA

PARAMETER	UNIT	VALUE (1500 RPM)	VALUE (1800 RPM)
Generator set Frequency	Hz	50	60
Engine Standby Power (LTP)	kW	47.3	52.8
Engine Prime Power (PRP)	kW	43	48
Engine Continuous Power (COP)	kW	43	48
Cooling Fan Power Consumption (KW)	kW	1.5	2
Engine Net Standby Output (LTP)	kW	45.5	50.5
Engine Net Prime Output (PRP)	kW	41.2	45.7
Engine Net Continuous Output (COP)	kW	41.2	45.7



SMART POWER GENERATION

ISUZU

2. Genearal Specification

PARAMETER	UNIT	VALUE
Length /Width/ Height	mm	892 / 618 / 740
Engine Dry Weight (w/o Cooling System)	kg	330
Aspiration Type / Injection Type	—	Nature /Direct
Configuration / No. of Cylinders	—	Vertical / 4
Displacement	liters	4.484
Bore /Stroke	mm	110 / 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	—	CD 15W-40
Oil Capacity	liters	13
Max. Permissible Oil Temperature	°C	120
Low Oil Pressure Warning /Shutdown	kPa	100 /80
Oil Consumption	%	0.77% of fuel consumption)

SMART POWER GENERATION

ISUZU

4. Cooling System

PARAMETER	UNIT	VALUE
Coolant Capacity for Engine	Liters	7.2
Max. Permissible / Warning Temperature	°C	90 / 95
Max. Coolant Shutdown Temperature	°C	98
Thermostat Open Temperature	°C	76
Flow of Coolant pump	m^3/h	≥10.4
Heat dissiption (engine raditor	kW	32.25 / 36
Heat dissiption (convection)	kw	26.88 / 30

5. Fuel System

PARAMETER	UNIT	1500 RPM (50HZ)	1800 RPM (60HZ)
Governor Type	—	Mechanical	Mechanical
Fuel Consumption at 25% PRM	l/h	5.09	5.65
Fuel Consumption at 50% PRM	l/h	6.91	7.68
Fuel Consumption at 75% PRM	l/h	9.15	10.18
Fuel Consumption at 100% PRM	l/h	12.03	13.44
Lowest Fuel Consumption Ratio	g/kW.hr	235	235

6.Intake & ExhaustSystem

PARAMETER	UNIT	1500 RPM	1800 RPM
Combustion Air Consumption	m^3/min	2.5	3
Max. Intake Restriction	kPa	4	4
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	14or28 / 53.6or26.8
Starting Voltage / Motor Capacity	V / KW	12or24 / 4.5or5
Minimum Battery Capacity	Ah	120
Min. Ambient Temp (Unaided Cold Start)	°C	-10