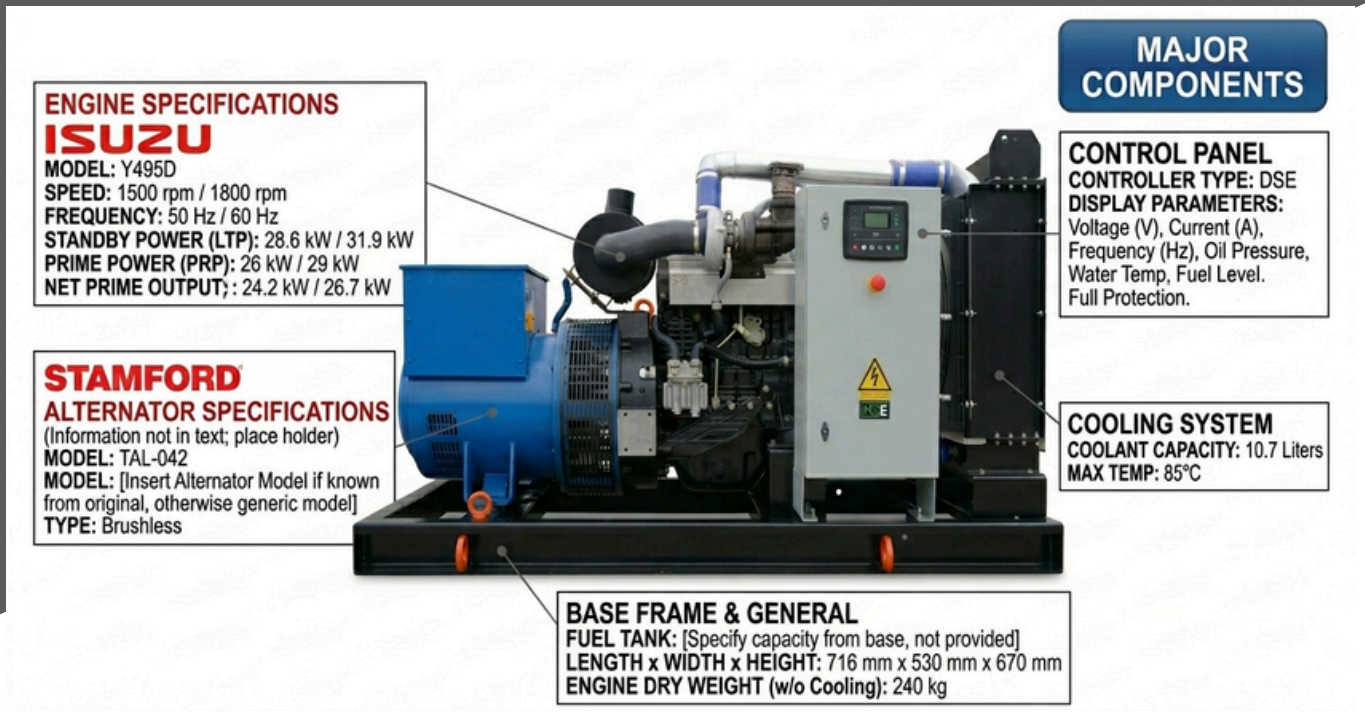
SMART POWER GENERATION

ISUZU

Y495D ENGINE TECHNICAL DATA SHEET

1.Engine Ratings 30KVA

PARAMETER	UNIT	VALUE (1500 RPM)	VALUE (1800 RPM)
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



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2. Genearal Specification

PARAMETER	UNIT	VALUE
Length /Width/ Height	mm	716 / 530 / 670
Engine Dry Weight (w/o Cooling System)	kg	240
Aspiration Type / Injection Type	—	Nature /Direct
Configuration / No. of Cylinders	—	Vertical / 4
Displacement	liters	2.977
Bore /Stroke	mm	95 /105
Compression Ratio	—	18
Piston Speed	m/s	5.25/6.3
Rotation Direction (from flywheel)	—	Anti-clockwise
Number of Flywheel Teeth / House Size	—	119/ SAE4

3. Lubrication System

PARAMETER	UNIT	VALUE
Lube Oil Specification	—	CD40
Oil Capacity	liters	7.6
Max. Permissible Oil Temperature	°C	110
Low Oil Pressure Warning /Shutdown	kPa	100 /100
Oil Consumption	%	0.72% 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	≥270
Heat dissiption (engine raditor	kW	-
Heat dissiption (convection)	kw	-

5. Fuel System

PARAMETER	UNIT	1500 RPM (50HZ)	1800 RPM (60HZ)
Governor Type	-	Mechanical	Mechanical
Fuel Consumption at 25% PRM	l/h	3.69	3.73
Fuel Consumption at 50% PRM	l/h	5.27	5.27
Fuel Consumption at 75% PRM	l/h	6.15	6.22
Fuel Consumption at 100% PRM	l/h	6.87	7.31
Lowest Fuel Consumption Ratio	g/kW.hr	250	250

6.Intake & ExhaustSystem

PARAMETER	UNIT	1500 RPM	1800 RPM
Combustion Air Consumption	m³/min	1.69	1.88
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 / -
Starting Voltage / Motor Capacity	V / KW	12 / 3.5
Minimum Battery Capacity	Ah	120
Min. Ambient Temp (Unaided Cold Start)	°C	-10