

FUJIAN EPOS ELECTRIC MACHINERY CO., LTD



ENGINE MODEL: Y490D

EMEAN POWER

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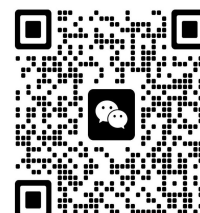
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Y490D ENGINE TECHNICAL DATA SHEET

1. Engine Ratings for Generator Application

	Y490D		
Engine Rated Speed	rpm	1500	1800
Generator set Frequency	Hz	50	60
Engine Standby Power (LTP)	kW	26.4	30.8
Engine Prime Power (PRP)	kW	24	28
Engine Continuous Power (COP)	kW	24	28
Cooling Fan Power Consumption (kW)	kW	1.5	2
Engine Net Standby Output (LTP)	kW	24.4	28.2
Engine Net Prime Output (PRP)	kW	22.2	25.7
Engine Net Continuous Output (COP)	kW	22.2	25.7

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	2.67
Bore	mm	90
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		CD 15W-40
Oil Capacity	liters	8
Max. Permissible Oil Temperature	°C	120
Low Oil Pressure Warning	kPa	100
Low Oil Pressure Shutdown	kPa	80
Oil consumption (as % of fuel consumption)		0.72%

4. Cooling System

Coolant Capacity for Engine	Liters	5	
Max. Permissible Temperature	°C	90	
Max. Coolant Warning Temperature	°C	95	
Max. Coolant Shutdown Temperature	°C	98	
Thermostat Open Temperature	°C	72	
Radiator Cooling Flow	m³/min	≥62	≥73
Flow of Coolant pump	m³/h	≥9.98	≥11.98
Heat dissipation (engine radiator)	kW	18	21
Heat dissipation (convection)	kW	15	17.5

5. Fuel System			
Governor Type		Mechanical	
Fuel Consumption at 25% of generator set prime output	l/h	3.27	3.29
Fuel Consumption at 50% of generator set prime output	l/h	4.81	4.87
Fuel Consumption at 75% of generator set prime output	l/h	5.77	5.8
Fuel Consumption at 100% of generator set prime output	l/h	6.43	6.89
Lowest Fuel Consumption Ratio	g/kW.hr	240	240
6. Intake & Exhaust System (On Standby Output)			
Combustion Air Consumption	m³/min	1.49	1.79
Max. Intake Restriction	kPa	3.5	
Max. Exhaust Temperature (Before Turbo)	°C	/	/
Max. Exhaust Temperature (After Turbo)	°C	500	500
Max. Exhaust Back Pressure	kPa	6	
Exhaust Gas Flow	m³/min	3.86	4.64
Exhaust Flange Diameter	mm	74	
7. Electrical System			
Charging Alternator Voltage	V	14	
Charging Alternator Capacity	A	25	
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/dm3 , 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			

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