



## Y495D ENGINE TECHNICAL DATA SHEET

1. Engine Ratings for Generator application	Y495D		
Engine Rated Speed	rpm	1500	1800
Generator set Frequency	Hz	50	60
<b>Engine Standby Power (LTP)</b>	kW	28,6	31,9
<b>Engine Prime Power (PRP)</b>	kW	26	29
<b>Engine Continuous Power (COP)</b>	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

### 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	2,977
Bore	mm	95
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		CD40
Oil Capacity	liters	7,6
Max. Permissible Oil Temperature	°C	110
Low Oil Pressure Warning	kPa	100
Low Oil Pressure Shutdown	kPa	100
Oil consumption (as % of fuel consumption)		0,72%

<b>4. Cooling System</b>			
Coolant Capacity for Engine	Liters	10,7	
Max. Permissible Temperature	°C	85	
Max. Coolant Warning Temperature	°C	85	
Max. Coolant Shutdown Temperature	°C	95	
Thermostat Open Temperature	°C	75	
Radiator Cooling Flow	m <sup>3</sup> /min		
Flow of Coolant pump	m <sup>3</sup> /h	≥270	≥270
Heat dissipation (engine radiator)	kW		
Heat dissipation (convection)	kW		
<b>5. Fuel System</b>			
Governor Type		Mechanical	
Fuel Consumption at 25% of generator set prime output	l/h	3,69	3,73
Fuel Consumption at 50% of generator set prime output	l/h	5,27	5,27
Fuel Consumption at 75% of generator set prime output	l/h	6,15	6,22
Fuel Consumption at 100% of generator set prime output	l/h	6,87	7,31
Lowest Fuel Consumption Ratio	g/kW.hr	250	250
<b>6. Intake &amp; Exhaust System ( On Standby Output )</b>			
Combustion Air Consumption	m <sup>3</sup> /min	1,69	1,88
Max. Intake Restriction	kPa	101	
Max. Exhaust Temperature ( Before Turbo )	°C		
Max. Exhaust Temperature ( After Turbo )	°C	500	500
Max. Exhaust Back Pressure	kPa	6	
Exhaust Gas Flow	m <sup>3</sup> /min		
Exhaust Flange Diameter	mm	74	
<b>7. Electrical System</b>			
Charging Alternator Voltage	V	12	
Charging Alternator Capacity	A		
Starting Voltage	V	12	
Starting Motor Capacity	KW	3,5	
Minimum Battery Capacity	Ah	120	
Minimum Ambient Temperature for Unaided Cold Start	°C	-10	
<b>Note :</b>			
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/dm <sup>3</sup> , 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			

This datasheet has been prepared by Gucbir Generator / Istanbul for Yang Dong engines.