

## YD4GZLD ENGINE TECHNICAL DATA SHEET

1. Engine Ratings for Generator app	YD4GZLD		
Engine Rated Speed	rpm	1500	1800
Generator set Frequency	Hz	50	60
<b>Engine Standby Power (LTP)</b>	kW	93	94,5
<b>Engine Prime Power (PRP)</b>	kW	90	100
<b>Engine Continuous Power (COP)</b>	kW	90	100
Cooling Fan Power Consumption (kW)	kW	3	3,5
Engine Net Standby Output (LTP)	kW	88	98
Engine Net Prime Output (PRP)	kW	85	94
Engine Net Continuous Output (COP)	kW	85	94

### 2. General Specification

Length	mm	892
Width	mm	618
Height	mm	740
Engine Dry Weight w/o Cooling System	kg	370
Aspiration Type		Turbocharged
Injection Type		Direct
Configuration		Vetical
No. of Cylinders		4
Displacement	liters	4,3
Bore	mm	110
Stroke	mm	118
Compression Ratio		18
Piston Speed	m/s	5.9/7.08
Rotation Direction (from flywheel)		Anti-clockwise
Number of Flywheel Teeth		119
Flywheel House Size		SAE3

### 3. Lubrication System

Lube Oil Specification		CF 15W-40
Oil Capacity	liters	17
Max. Permissible Oil Temperature	°C	130
Low Oil Pressure Warning	kPa	100
Low Oil Pressure Shutdown	kPa	80
Oil consumption (as % of fuel consumption)		0,82

<b>4. Cooling System</b>			
Coolant Capacity for Engine	Liters	7,2	
Max. Permissible Temperature	°C	90	
Max. Coolant Warning Temperature	°C	95	
Max. Coolant Shutdown Temperature	°C	98	
Thermostat Open Temperature	°C	76	
Radiator Cooling Flow	m³/min	≥160	≥188
Flow of Coolant pump	m³/h	≥11.7	≥14.1
Heat dissipation (engine radiator)	kW	60	67,5
Heat dissipation (convection)	kW	50	56,25
<b>5. Fuel System</b>			
Governor Type		Electronic	
Fuel Consumption at 25% of generator set p	l/h	8,3	8,90
Fuel Consumption at 50% of generator set pr	l/h	14,2	45,8
Fuel Consumption at 75% of generator set pr	l/h	18,9	21,3
Fuel Consumption at 100% of generator set p	l/h	22,1	25,9
Lowest Fuel Consumption Ratio	g/kW.hr	218	218
<b>6. Intake &amp; Exhaust System ( On Standby Output )</b>			
Combustion Air Consumption	m³/min	5,31	6,37
Max. Intake Restriction	kPa	4,9	
Max. Exhaust Temperature ( Before Turbo )	°C	650	650
Max. Exhaust Temperature ( After Turbo )	°C	550	550
Max. Exhaust Back Pressure	kPa	10	
Exhaust Gas Flow	m³/min	13,53	16,24
Exhaust Flange Diameter	mm	84	
<b>7. Electrical System</b>			
Charging Alternator Voltage	V	14or28	
Charging Alternator Capacity	A	53.6or26.8	
Starting Voltage	V	12or24	
Starting Motor Capacity	KW	4.5or5	
Minimum Battery Capacity	Ah	120	
Minimum Ambient Temperature for Unaided	°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/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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This datasheet has been prepared by Gucbir Generator / Istanbul for Yang Dong engines.