

YD4GZLD ENGINE TECHNICAL DATA SHEET

1. Engine Ratings for Generator appli		YD4GZLD	
Engine Rated Speed	rpm	1500	1800
Generator set Frequency	Hz	50	60
Engine Standby Power (LTP)	kW	93	94,5
Engine Prime Power (PRP)	kW	90	100
Engine Continuous Power (COP)	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. Genearal 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	
4. Cooling System			
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

5. Fuel System

Governor Type		Electronic	
Fuel Consumption at 25% of generator set pri	l/h	8,3	8,90
Fuel Consumption at 50% of generator set pri	l/h	14,2	45,8
Fuel Consumption at 75% of generator set pri	l/h	18,9	21,3
Fuel Consumption at 100% of generator set pri	l/h	22,1	25,9
Lowest Fuel Consumption Ratio	g/kW.hr	218	218

6. Intake & Exhaust System (On Standby Output)

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	

7. Electrical System

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	°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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