

## Y4105ZLD ENGINE TECHNICAL DATA SHEET

1. Engine Ratings for Generator application	Y4105ZLD			
Engine Rated Speed	rpm	1500	1800	
Generator set Frequency	Hz	50	60	
Engine Standby Power (LTP)	kW	57,7	65,1	
Engine Prime Power (PRP)	kW	55	62	
Engine Continuous Power (COP)	kW	55	62	
Cooling Fan Power Consumption (kW)	kW	2	2,5	
Engine Net Standby Output (LTP)	kW	55,3	62,1	
Engine Net Prime Output (PRP)	kW	52,7	59,2	
Engine Net Continuous Output (COP)	kW	52,7	59,2	
2. Genearal Specification				
Length	mm	892		
Width	mm	618		
Height	mm	740		
Engine Dry Weight w/o Cooling System	kg	350		
Aspiration Type		Turbocharged		
Injection Type		Direct		
Configuration		Vetical		
No. of Cylinders		4		
Displacement	liters	4,1		
Bore	mm	105		
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		CD	CD40	
Oil Capacity	liters	10,	10,46	
Max. Permissible Oil Temperature	°C	11	110	
Low Oil Pressure Warning	kPa	10	100	
Low Oil Pressure Shutdown	kPa	10	100	
Oil consumption (as % of fuel consumption)		0.0	0,82	

Coolant Capacity for Engine  Max. Permissible Temperature  Max. Coolant Warning Temperature			
Max. Coolant Warning Temperature	Liters	10,7	
	°C	85	
	°C	85	
Max. Coolant Shutdown Temperature	°C	95	
Thermostat Open Temperature	°C	75	
Radiator Cooling Flow	m³/min		
Flow of Coolant pump	m³/h	≥260	≥260
Heat dissipation (engine radiator)	kW		
Heat dissipation (convection)	kW		
5. Fuel System			
Governor Type		Electronic	
Fuel Consumption at 25% of generator set prime output	l/h	5,02	5,65
Fuel Consumption at 50% of generator set prime output	l/h	7,57	8,69
Fuel Consumption at 75% of generator set prime output	l/h	9,71	10,1
Fuel Consumption at 100% of generator set prime output	l/h	12,1	13,6
Lowest Fuel Consumption Ratio	g/kW.hr	220	220
6. Intake & Exhaust System ( On Standby Output )			
Combustion Air Consumption	m³/min	3,13	3,53
Max. Intake Restriction	kPa	18	
Max. Exhaust Temperature ( Before Turbo )	°C	650	650
Max. Exhaust Temperature ( After Turbo )	°C	500	500
Max. Exhaust Back Pressure	kPa	10	
Exhaust Gas Flow	m³/min		
Exhaust Flange Diameter	mm	84	
7. Electrical System			
Charging Alternator Voltage	V	12or24	
Charging Alternator Capacity	А		
	V	12or24	
Starting Voltage	KW	4.5or5	
		120	
Starting Voltage Starting Motor Capacity Minimum Battery Capacity	Ah	12	20