YUNNEI POWER ENGINE DATA SHEET

1. Engine Ratings (GDRIVE)		YN25ANJ18/21
Engine Rated Speed	rpm	1500
Generator set Frequency	Hz	50
Engine Prime Power (PRP)	kW	18/21
Engine Standby Power (COP)	kW	20/23
Cooling Fan Power Consumption (kW)	kW	1
Engine Net Prime Output (PRP)	kW	17/20
Engine Net Continuous Output (COP)	kW	17/20

2. Genearal Specification		
Length	mm	900
Width	mm	540
Height	mm	760
Engine Dry Weight w/o Cooling System	kg	200
Aspiration Type		Turbocharged
Injection Type		Direct
Configuration		Vertical
No. of Cylinders		4
Displacement	liters	2,54
Bore	mm	90
Stroke	mm	100
Compression Ratio		17.5
Piston Speed	m/s	5,0/6,0
Rotation Direction (from flywheel)		Anti-clockwise
Number of Flywheel Teeth		109
Flywheel House Size		SAE4

3. Lubrication System		
Lube Oil Specification		CD 15W-40
Oil Capacity	liters	6.5
Max. Permissible Oil Temperature	℃	120
Low Oil Pressure Warning	kPa	105
Low Oil Pressure Shutdown	kPa	-
Oil consumption (as % of fuel consumption)		-

4. Cooling System		
Coolant Capacity for Engine	Liters	4.5
Max. Permissible Temperature	°C	95
Max. Coolant Warning Temperature	°C	98
Max. Coolant Shutdown Temperature	°C	105
Thermostat Open Temperature	°C	72
Flow of Coolant pump	m³/h	≥6. 58
5. Fuel System		
Governor Type		Mec. & Elec.
Fuel Consumption at 25% of generator set prime output	l/h	1,31
Fuel Consumption at 50% of generator set prime output	l/h	2,62
Fuel Consumption at 75% of generator set prime output	l/h	3,69
Fuel Consumption at 100% of generator set prime output	l/h	4,76
Lowest Fuel Consumption Ratio	g/kW.hr	220
6. Intake & Exhaust System (On Standby Output		
Combustion Air Consumption	m³/min	
Max. Intake Restriction	kPa	3
Max. Exhaust Temperature (Before Turbo)	°C	/
Max. Exhaust Temperature (After Turbo)	°C	590
Max. Exhaust Back Pressure	kPa	6
Exhaust Gas Flow	m³/min	
Exhaust Flange Diameter	mm	74
7. Electrical System		
Charging Alternator Voltage	V	14
Charging Alternator Capacity	A	35
Starting Voltage	V	12
Starting Motor Capacity	KW	3.5
Minimum Battery Capacity	Ah	110
Minimum Ambient Temperature for Unaided Cold Start	°C	-20
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 40ºC environment temperature and 1500 meter altitude		
4. More than 40ºC and 1500m above sea level , decrease 0.5% per 1ºC , 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		