

FUJIAN EPOS ELECTRIC MACHINERY CO., LTD

EMEAN
POWER



FAWDE

ENGINE MODEL: 4DW81-23D

EMEAN POWER

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Basic technical data		
Engine Model		4DW81-23D
No. of cylinders		4
Cylinder arrangement		In-line
Cycle		4 stroke
Aspiration		Natural
Cooling system		Water-cooled
Bore	mm	85 mm
Stroke	mm	95 mm
Compression ratio		17:1
Displacement	L	2.16 L
Dry engine weight	kg	220 kg
Dimension (L*W*H)	mm	700*555*680
The Flywheel shell interface		SAE4-7.5"

Performance Data		
Governed Engine Speed	r/min	1500
Continuous Power without Fans	kW	17
Standby Power	kW	19
Adaptive power station (kw)	kW	13
Steady state speed regulation rate	%	5 / Mechanical
		0-3 / Electronical
Emission Standards		CN Stage II
Average effective pressure	mPa	0.63

Lubrication system		
Lubricating oil capacity	L	8
Lubricating oil consumption	L/h	≤0.03

Fuel system		
Fuel consumption PRP	kg/h	3.88
Fuel consumption Rate	g/kW·h	
25% prime power	g/kW·h	272
50% prime power	g/kW·h	240
75% prime power	g/kW·h	228
100% prime power	g/kW·h	228
100% standby power	g/kW·h	230

Air intake system		
Air consumption	m ³ /min	1.5
Maximum allowed intake pressure	kPa	6.3
Exhaust gas discharge	m ³ /min	3.7
Exhaust temperature (exhaust gas after turbine)	°C	480
Exhaust heat	kw	14
Maximum allowed back pressure	kPa	6.7

Heat balance		
Engine heat output	kw	2.8
Heat removal of coolant	kw	11.6
Heat dissipation of intercooler	kw	0

Cooling system		
Fan Speed Ratio		1.5
Pump Flow head	L/s	1.0
Coolant capacity-engine	L	6
Fan diameter	mm	400
Fan speed	R/min	2250
Fan flow	m ³ /s/Pa)	0.88/290
Fan power consumption	kW	0.74
Coolant capacity-Radiator	L	8
Thermostat on / off temperature	°C	
Noted:Pump Flow / Speed head		70/2600-6.2

Electrical system		
Auxiliary voltage (V)		12 V
Alternator (A)		50
Starter Motor (kw)		3.5
Start preheater (kw)		0.43
Number of teeth of flywheel ring gear		109

Power Calibration Regulations

- 1.The diesel engine performance data specified above are based on the atmospheric environment specified in the GB/T6072.1/ISO3046-1 standard.
The atmospheric pressure is 100kPa, the ambient temperature is 25°C, and the air humidity is 30%. Fuel calorific value 42.7mJ/kg
- 2.Prime power refers to the output power that the diesel engine can run for a long time without time limit under this working condition

3.Standby power refers to that the diesel engine is allowed to work continuously for 1 hour under the limited power of fuel volume every 6 hours

Power correction

1.The diesel engine can be used without reducing the power when the altitude is 400m and the ambient temperature is less than 40℃.

2.When the environment deviates from the standard, the operating power of the diesel engine shall be corrected according to the following table

Altitude < 3000m	%/m	4/500
Altitude>3000m	%/m	6/500
Ambient Temperature	%/℃	2/5
Humidity	%	No correction

Fuel consumption rate

Unless otherwise specified, the allowable deviation of calibrated fuel consumption rate at rated power is + 5%

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