

# FUJIAN EPOS ELECTRIC MACHINERY CO., LTD

**EMEAN**  
POWER



**FAWDE**

ENGINE MODEL: 4DX23-78D

EMEAN POWER

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Basic technical data		
Engine Model		4DX23-78D
No. of cylinders		4
Cylinder arrangement		In-line
Cycle		4 stroke
Aspiration		Turbocharged & Intercooled
Cooling system		Water-cooled
Bore	mm	102 mm
Stroke	mm	118 mm
Compression ratio		17:1
Displacement	L	3.86 L
Dry engine weight	kg	340 kg
Dimension (L*W*H)	mm	800*680*850
The Flywheel shell interface		SAE3-11.5"

Performance Data		
Governed Engine Speed	r/min	1500
Continuous Power without Fans	kW	57
Standby Power	kW	63
Adaptive power station (kw)	kW	48
Steady state speed regulation rate	%	N/M 0-3 / Electronical
Emission Standards		CN Stage II
Noise Level	dB	≤110
Average effective pressure	mPa	1.18

Lubrication system		
Lubricating oil capacity	L	13
Lubricating oil consumption	L/h	≤0.05

Fuel system		
Fuel consumption PRP	kg/h	12.00
Fuel consumption Rate	g/kW·h	
25% prime power	g/kW·h	250
50% prime power	g/kW·h	221
75% prime power	g/kW·h	210
100% prime power	g/kW·h	210

100% standby power	g/kW·h	210
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Air intake system		
Air consumption	m <sup>3</sup> /min	4.3
Maximum allowed intake pressure	kPa	6.3
Fuel calorific value		N/M
Exhaust gas discharge	m <sup>3</sup> /min	10.8
Exhaust temperature (exhaust gas after turbine)	°C	480
Exhaust heat	kw	45
Maximum allowed back pressure	kPa	6.7

Heat balance		
Engine heat output	kw	4.6
Heat removal of coolant	kw	31
Heat dissipation of intercooler	kw	8

Cooling system		
Fan Speed Ratio		1.68
Pump Flow head	L/s	2.8
Coolant capacity-engine	L	8
Fan diameter	mm	520
Fan speed	R/min	2523
Fan flow	m <sup>3</sup> /s(Pa)	2.4/500
Fan power consumption	kW	4.6
Coolant capacity-Radiator	L	11
Thermostat on / off temperature	°C	
Noted:Pump Flow / Speed head		174/3200-10

Electrical system		
Auxiliary voltage (V)		24 V
Alternator (A)		35
Starter Motor (kw)		4.5
Start preheater (kw)		1.0
Number of teeth of flywheel ring gear		128

## 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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