FUJIAN EPOS ELECTRIC MACHINERY CO., LTD

EMEAN POWER

FAWDE

ENGINE MODEL： 4DX21-53D

WHATSAPP

WECHAT

EMEAN POWER

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■ Model：4DX21-53D

Basic technical data		
Engine Model		4DX21-53D
No. of cylinders		4
Cylinder arrangement		In-line
Cycle		4 stroke
Aspiration		Natural
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	320 kg
Dimension（L*W*H）	mm	820*740*780
The Flywheel shell interface		SAE3-11.5"

Performance Data		
Governed Engine Speed	r/min	1800
Continuous Power without Fans	kW	39
Standby Power	kW	43
Adaptive power station (kw)	kW	32
Steady state speed regulation rate	%	5 / Mechanical
		0-3 / Electronical
Emission Standards		CN Stage Ⅱ
Noise Level	dB	≤109
Average effective pressure	mPa	0.67

Lubrication system		
Lubricating oil capacity	L	13
Lubricating oil consumption	L/h	≤0.04

Fuel system		
Fuel consumption PRP	kg/h	8.74
Fuel consumption Rate	g/kW·h	
25% prime power	g/kW·h	270
50% prime power	g/kW·h	236
75% prime power	g/kW·h	224
100% prime power	g/kW·h	224

100% standby power	g/kW·h	225

Air intake system		
Air consumption	m^3/min	3
Maximum allowed intake pressure	kPa	6.3
Exhaust gas discharge	m^3/min	7.4
Exhaust temperature (exhaust gas after turbine)	℃	470
Exhaust heat	kw	32
Maximum allowed back pressure	kPa	6.7

Heat balance		
Engine heat output	kw	3.1
Heat removal of coolant	kw	25.7
Heat dissipation of intercooler	kw	0

Cooling system		
Fan Speed Ratio		1.68
Pump Flow head	L/s	2.8
Coolant capacity-engine	L	8
Fan diameter	mm	420
Fan speed	R/min	3027
Fan flow	m^3/s/Pa)	1.32/570
Fan power consumption	kW	2.25
Coolant capacity-Radiator	L	12
Thermostat on / off temperature	℃	
Noted:Pump Flow / Speed head		174/3200-10

Electrical system	
Auxiliary voltage (V)	24 V
Alternaotr (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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