FUJIAN EPOS ELECTRIC MACHINERY CO., LTD





ENGINE MODEL: 4DX21-53D

EMEAN POWER

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■ Model: 4DX21-53D

A	Basic technical data		
Dylinder arrangement	Engine Model		4DX21-53D
A stroke Aspiration Natural	No. of cylinders		4
Aspiration Natural Cooling system Water-cooled Sore mm 102 mm Stroke mm 118 mm Compression ratio 17:1 Displacement L 3.86 L Ory 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 Displacement L 3.86 L Ory 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) a2 Steady state speed regulation rate % 5 / Mechanical O-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 capacity L 13 Lubricating oil consumption L/h ≤0.04 Fuel system Fuel consumption PRP kg/h 8.74 Fuel consumption PRP Fuel consumption Rate g/kW·h 25% prime power g/kW·h 270	Cylinder arrangement		In-line
Water-cooled	Cycle		4 stroke
Stroke	Aspiration		Natural
Stroke	Cooling system		Water-cooled
17:1 17:1 20:splacement	Bore	mm	102 mm
Displacement	Stroke	mm	118 mm
Sample	Compression ratio		17:1
Dimension (L*W*H) mm 820*740*780 The Flywheel shell interface SAE3-11.5" Performance Data Soverned 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 Steady state speed regulation rate CN Stage II Noise Level dB ≤109 Average effective pressure mPa 0.67 Average effective pressure mPa 0.67 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 270	Displacement	L	3.86 L
SAE3-11.5" SA	Dry engine weight	kg	320 kg
Performance Data Governed Engine Speed r/min 1800	Dimension (L*W*H)	mm	820*740*780
Soverned Engine Speed r/min 1800	The Flywheel shell interface		SAE3-11.5"
Soverned Engine Speed r/min 1800			
Continuous Power without Fans kW 39	Performance Data		
Standby Power kW 43 Adaptive power station (kw) kW 32 Steady state speed regulation rate % 5 / Mechanical Emission Standards CN Stage II Noise Level dB ≤109 Average effective pressure mPa 0.67 Lubrication system L 13 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 270	Governed Engine Speed	r/min	1800
Adaptive power station (kw) kW 32 Steady state speed regulation rate Steady state speed regulation rate Steady state speed regulation rate Who is a construction standards CN Stage II CN Stage	Continuous Power without Fans	kW	39
Steady state speed regulation rate Steady state speed regulation rate Steady state rate rate rate rate rate rate rate	Standby Power	kW	43
Steady state speed regulation rate % 0-3 / Electronical Emission Standards CN Stage II Noise Level dB ≤109 Average effective pressure mPa 0.67 Lubrication system L 13 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	Adaptive power station (kw)	kW	32
CN Stage II	Steady state speed regulation rate	0/	5 / Mechanical
Noise Level dB ≤109 Average effective pressure mPa 0.67 Lubrication system Lubricating oil capacity L 13 Lubricating oil consumption L/h ≤0.04 Lubricating oil consumption PRP kg/h 8.74 Fuel consumption Rate g/kW·h 25% prime power g/kW·h 270		70	0-3 / Electronical
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	Emission Standards		CN Stage II
Lubrication system Lubricating oil capacity L L/h ≤0.04 Fuel system Fuel consumption PRP kg/h system Fuel consumption Rate g/kW·h g/kW·h 25% prime power g/kW·h 270	Noise Level	dB	≤109
Lubricating oil capacity Lubricating oil consumption L/h ≤0.04 Fuel system Fuel consumption PRP kg/h suel consumption Rate g/kW·h 25% prime power g/kW·h 270	Average effective pressure	mPa	0.67
Lubricating oil capacity Lubricating oil consumption L/h ≤0.04 Fuel system Fuel consumption PRP kg/h suel consumption Rate g/kW·h 25% prime power g/kW·h 270			
Lubricating oil consumption L/h Solution L/h Solution L/h Solution L/h Solution Solution L/h Solution S	Lubrication system		
Fuel system Fuel consumption PRP kg/h 8.74 Fuel consumption Rate g/kW·h 25% prime power g/kW·h 270	Lubricating oil capacity	L	13
Fuel consumption PRP kg/h 8.74 Fuel consumption Rate g/kW·h 25% prime power g/kW·h 270	Lubricating oil consumption	L/h	≤0.04
Fuel consumption PRP kg/h 8.74 Fuel consumption Rate g/kW·h 25% prime power g/kW·h 270			
Fuel consumption Rate g/kW·h 25% prime power g/kW·h 270	Fuel system		
25% prime power g/kW·h 270	Fuel consumption PRP	kg/h	8.74
•	Fuel consumption Rate	g/kW·h	
50% prime power a/k\N/·h 236	25% prime power	g/kW·h	270
9/NV II 200	50% prime power	g/kW·h	236
75% prime power g/kW·h 224	75% prime power	g/kW·h	224
100% prime power g/kW·h 224	100% prime power	g/kW·h	224

Air intake system			
Air consumption	m³/min	3	
Maximum allowed intake pressure	kPa	6.3	
Exhaust gas discharge	m³/min	7.4	
Exhaust temperature	$^{\circ}\mathrm{C}$	470	
(exhaust gas after turbine)	C	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	m³/s/Pa)	1.32/570
Fan power consumption	kW	2.25
Coolant capacity-Radiator	L	12
Thermostat on / off temperature	$^{\circ}\!\mathbb{C}$	
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° C.
- 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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