FUJIAN EPOS ELECTRIC MACHINERY CO., LTD





ENGINE MODEL: 4DX22-75D

EMEAN POWER

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WECHAT





■ Model: 4DX22-75D

Engine Model	Basic technical data			
Cycle 4 stroke Aspiration Turbocharged Cooling system Water-cooled Bore mm 102 mm Stroke mm 118 mm Compression ratio 17:1 15 mm 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 1800 Continuous Power without Fans kW 55 Standby Power kW 60.5 Adaptive power station (kw) kW 45 Steady state speed regulation rate % N/M Steady state speed regulation rate % N/M Steady state speed regulation rate % N/M Steady state speed regulation rate GN Stage II Noise Level dB ≤110 Average effective pressure mPa 0.95 Lubrication system L <td>Engine Model</td> <td></td> <td>4DX22-75D</td>	Engine Model		4DX22-75D	
Cycle 4 stroke Aspiration Turbocharged 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 340 kg 340 kg Displacement L 3.86 L Dry engine weight kg 340 kg	No. of cylinders	4		
Aspiration Turbocharged 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 1800 Continuous Power without Fans kW 55 Standby Power kW 60.5 Adaptive power station (kw) kW 45 Steady state speed regulation rate % N/M O-3 / Electronical Emission Standards CN Stage II Noise Level dB ≤110 Average effective pressure mPa 0.95 Lubricating oil capacity L 13 Lubricating oil capacity L 13 Lubricating oil consumption L/h ≤0.06 Fuel system Fuel consumption PRP kg/h 12.10 Fuel consumption Rate g/kW·h 255 50% prime power g/kW·h 231 75% prime power g/kW·h 220	Cylinder arrangement		In-line	
Cooling system Water-cooled Bore mm 102 mm Stroke mm 118 mm Compression ratio 17:1 118 mm Compression ratio 17:1 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 1800 Continuous Power without Fans kW 55 Standby Power kW 60.5 Adaptive power station (kw) kW 45 Steady state speed regulation rate % N/M Steady state speed regulation rate % N/M Noise Level dB ≤110 Average effective pressure mPa 0.95 Lubrication system Lubricating oil capacity L 13 Lubricating oil capacity L 13 Lubricating oil consumption L/h ≤0.06 Fuel consumption PRP	Cycle		4 stroke	
Bore	Aspiration		Turbocharged	
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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 1800 Continuous Power without Fans kW 55 Standby Power kW 60.5 Adaptive power station (kw) kW 45 Steady state speed regulation rate % N/M O-3 / Electronical Emission Standards CN Stage II Noise Level dB ≤110 Average effective pressure mPa 0.95 Lubrication system L 13 Lubricating oil capacity L 13 Lubricating oil consumption L/h ≤0.06 Fuel system Fuel consumption PRP kg/h 12.10 Fuel consumption Rate g/kW·h 255 50% prime power g/kW·h 231 <td< td=""><td>Bore</td><td>mm</td><td>102 mm</td></td<>	Bore	mm	102 mm	
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The Flywheel shell interface SAE3-11.5" Performance Data Governed Engine Speed r/min 1800 Continuous Power without Fans kW 55 Standby Power kW 60.5 Adaptive power station (kw) kW 45 Steady state speed regulation rate % N/M Steady state speed regulation rate CN Stage II Noise Level dB ≤110 Average effective pressure mPa 0.95 Lubrication system Lubricating oil capacity L 13 Lubricating oil capacity L 13 Lubricating oil consumption L/h ≤0.06 Fuel system Fuel consumption PRP kg/h 12.10 Fuel consumption Rate g/kW·h 255 50% prime power g/kW·h 231 75% prime power g/kW·h 220	Dry engine weight	kg	340 kg	
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Standby Power kW 60.5 Adaptive power station (kw) kW 45 Steady state speed regulation rate % N/M Steady state speed regulation rate % CN Stage II Noise Level dB ≤110 Average effective pressure mPa 0.95 Lubrication system L 13 Lubricating oil capacity L 13 Lubricating oil consumption L/h ≤0.06 Fuel system Fuel consumption PRP kg/h 12.10 Fuel consumption Rate g/kW·h 25% prime power 25% prime power g/kW·h 231 75% prime power g/kW·h 220	Governed Engine Speed	r/min	1800	
Adaptive power station (kw) kW 45 Steady state speed regulation rate % N/M Emission Standards CN Stage II Noise Level dB ≤110 Average effective pressure mPa 0.95 Lubrication system L 13 Lubricating oil capacity L 13 Lubricating oil consumption L/h ≤0.06 Fuel system Fuel consumption PRP kg/h 12.10 Fuel consumption Rate g/kW·h 25% prime power 25% prime power g/kW·h 231 75% prime power g/kW·h 220	Continuous Power without Fans	kW	55	
N/M O-3 / Electronical Emission Standards CN Stage II Noise Level dB ≤110 Average effective pressure mPa 0.95 Lubrication system Lubricating oil capacity L 13 Lubricating oil consumption L/h ≤0.06 Fuel system Fuel consumption PRP kg/h 12.10 Fuel consumption Rate g/kW·h 255 50% prime power g/kW·h 231 75% prime power g/kW·h 220	Standby Power	kW	60.5	
Steady state speed regulation rate % 0-3 / Electronical Emission Standards CN Stage II Noise Level dB ≤110 Average effective pressure mPa 0.95 Lubrication system L 13 Lubricating oil capacity L 13 Lubricating oil consumption L/h ≤0.06 Fuel system Fuel consumption PRP kg/h 12.10 Fuel consumption Rate g/kW·h 255 50% prime power g/kW·h 231 75% prime power g/kW·h 220	Adaptive power station (kw)	kW	45	
Emission Standards CN Stage II Noise Level dB ≤110 Average effective pressure mPa 0.95 Lubrication system Lubricating oil capacity L 13 Lubricating oil consumption L/h ≤0.06 Fuel system Fuel consumption PRP kg/h 12.10 Fuel consumption Rate g/kW·h 255 50% prime power g/kW·h 231 75% prime power g/kW·h 220	Steady state speed regulation rate	0/.	N/M	
Noise Level dB ≤110 Average effective pressure mPa 0.95 Lubrication system L 13 Lubricating oil capacity L 13 Lubricating oil consumption L/h ≤0.06 Fuel system Fuel consumption PRP kg/h 12.10 Fuel consumption Rate g/kW·h 255 50% prime power g/kW·h 231 75% prime power g/kW·h 220		70	0-3 / Electronical	
Lubrication system Lubricating oil capacity L 13 Lubricating oil consumption L/h ≤0.06 Fuel system Kg/h 12.10 Fuel consumption PRP kg/h 12.10 Fuel consumption Rate g/kW·h 255 50% prime power g/kW·h 231 75% prime power g/kW·h 220	Emission Standards		CN Stage II	
Lubrication system Lubricating oil capacity L 13 Lubricating oil consumption L/h ≤0.06 Fuel system System Fuel consumption PRP kg/h 12.10 Fuel consumption Rate g/kW·h 25% prime power g/kW·h 255 50% prime power g/kW·h 231 75% prime power g/kW·h 220	Noise Level	dB	≤110	
Lubricating oil capacity L 13 Lubricating oil consumption L/h ≤0.06 Fuel system Fuel consumption PRP kg/h 12.10 Fuel consumption Rate g/kW·h 25% prime power g/kW·h 255 50% prime power g/kW·h 231 75% prime power g/kW·h 220	Average effective pressure	mPa	0.95	
Lubricating oil capacity L 13 Lubricating oil consumption L/h ≤0.06 Fuel system Fuel consumption PRP kg/h 12.10 Fuel consumption Rate g/kW·h 25% prime power g/kW·h 255 50% prime power g/kW·h 231 75% prime power g/kW·h 220				
Fuel system Fuel consumption PRP kg/h 12.10 Fuel consumption Rate g/kW⋅h 25% prime power g/kW⋅h 255 50% prime power g/kW⋅h 231 75% prime power g/kW⋅h 220	Lubrication system			
Fuel system Fuel consumption PRP kg/h 12.10 Fuel consumption Rate g/kW·h 25% prime power 25% prime power g/kW·h 255 50% prime power g/kW·h 231 75% prime power g/kW·h 220	Lubricating oil capacity	L	13	
Fuel consumption PRP kg/h 12.10 Fuel consumption Rate g/kW·h 25% prime power g/kW·h 255 50% prime power g/kW·h 231 75% prime power g/kW·h 220	Lubricating oil consumption	L/h	≤0.06	
Fuel consumption PRP kg/h 12.10 Fuel consumption Rate g/kW·h 25% prime power g/kW·h 255 50% prime power g/kW·h 231 75% prime power g/kW·h 220				
Fuel consumption Rate g/kW·h 25% prime power g/kW·h 255 50% prime power g/kW·h 231 75% prime power g/kW·h 220	Fuel system			
25% prime power g/kW·h 255 50% prime power g/kW·h 231 75% prime power g/kW·h 220	Fuel consumption PRP	kg/h	12.10	
50% prime power g/kW·h 231 75% prime power g/kW·h 220	Fuel consumption Rate	g/kW·h		
75% prime power g/kW·h 220	25% prime power	g/kW·h	255	
· · · · · ·	50% prime power	g/kW·h	231	
100% prime power g/kW·h 220	75% prime power	g/kW·h	220	
	100% prime power	g/kW·h	220	

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Air intake system			
Air consumption	m³/min	4.5	
Maximum allowed intake pressure	kPa	6.3	
Fuel calorific value		128	
Exhaust gas discharge	m³/min	11.9	
Exhaust temperature	°C	520	
(exhaust gas after turbine)	$^{\circ}\!$	520	
Exhaust heat	kw	47.4	
Maximum allowed back pressure	kPa	6.7	
Heat balance			
Engine heat output	kw	4.4	
Heat removal of coolant	kw	37.4	
Heat dissipation of intercooler	kw	0	
Cooling system			
Fan Speed Ratio		1.68	
Pump Flow head	L/s	3.4	
Coolant capacity-engine	L	8	
Fan diameter	mm	450	
	D/ 1	222	

Pump Flow head	L/s	3.4	
Coolant capacity-engine	L	8	
Fan diameter	mm	450	
Fan speed	R/min	3027	
Fan flow	m³/s/Pa)	1.8/570	
Fan power consumption	kW	4.15	
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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