

FUJIAN EPOS ELECTRIC MACHINERY CO., LTD

EMEAN
POWER



FAWDE

ENGINE MODEL: CA6DF2D-14D

EMEAN POWER

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Basic technical data

Engine Model	CA6F2D-14D	
No. of cylinders	6	
Cylinder arrangement	In-line	
Cycle	4 stroke	
Aspiration	Turbocharged	
Cooling system	Water-cooled	
Bore	mm	110 mm
Stroke	mm	115 mm
Compression ratio	17.5:1	
Displacement	L	6.56 L
Dry engine weight	kg	700 kg
Dimension (L*W*H)	mm	1310*721*995
The Flywheel shell interface	SAE3-11.5"	

Performance Data

Governed Engine Speed	r/min	1500
Continuous Power without Fans	kW	96
Standby Power	kW	105
Adaptive power station (kw)	kW	80
Steady state speed regulation rate	%	N/M 0-3 / Electrical
Emission Standards	CN Stage II	
Noise Level	dB	≤112
Average effective pressure	mPa	1.17

Lubrication system

Lubricating oil capacity	L	24
Lubricating oil consumption	L/h	≤0.07

Fuel system

Fuel consumption PRP	kg/h	19.68
Fuel consumption Rate	g/kW·h	
25% prime power	g/kW·h	255
50% prime power	g/kW·h	216
75% prime power	g/kW·h	206
100% prime power	g/kW·h	205

100% standby power	g/kW·h	206
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Air intake system

Air consumption	m ³ /min	7.0
Maximum allowed intake pressure	kPa	6.3
Fuel calorific value		N/M
Exhaust gas discharge	m ³ /min	17.5
Exhaust temperature (exhaust gas after turbine)	°C	480
Exhaust heat	kw	69.3
Maximum allowed back pressure	kPa	6.7

Heat balance

Engine heat output	kw	7.7
Heat removal of coolant	kw	62.4
Heat dissipation of intercooler	kw	0

Cooling system

Fan Speed Ratio		1.49
Pump Flow head	L/s	3.6-6.8
Coolant capacity-engine	L	10
Fan diameter	mm	620
Fan speed	R/min	2235
Fan flow	m ³ /s/Pa)	3.8/500
Fan power consumption	kW	7
Coolant capacity-Radiator	L	18
Thermostat on / off temperature	°C	
Noted:Pump Flow / Speed head	L/min/m	220/2200-6.7

Electrical system

Auxiliary voltage (V)		24 V
Alternator (A)		55
Starter Motor (kw)		6
Start preheater (kw)		1.5
Number of teeth of flywheel ring gear		129

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	%/°C	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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