

FUJIAN EPOS ELECTRIC MACHINERY CO., LTD

EMEAN
POWER



FAWDE

ENGINE MODEL: CA6DM2J-42D

EMEAN POWER

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Basic technical data

| | | |
|------------------------------|----|----------------------------|
| Engine Model | | CA6DM2J-42D |
| No. of cylinders | | 6 |
| Cylinder arrangement | | In-line |
| Cycle | | 4 stroke |
| Aspiration | | Turbocharged & Intercooled |
| Cooling system | | Water-cooled |
| Bore | mm | 123 mm |
| Stroke | mm | 155 mm |
| Compression ratio | | 17.5:1 |
| Displacement | L | 11.05 L |
| Dry engine weight | kg | 1050 kg |
| Dimension (L*W*H) | mm | 1755*896*1192 |
| The Flywheel shell interface | | SAE1-14" |

Performance Data

| | | |
|------------------------------------|-------|---------------------------|
| Governed Engine Speed | r/min | 1800 |
| Continuous Power without Fans | kW | 300 |
| Standby Power | kW | 330 |
| Adaptive power station (kw) | kW | 270 |
| Steady state speed regulation rate | % | N/M 0-3 / Electronical |
| Emission Standards | | CN Stage II |
| Noise Level | dB | ≤117 |
| Average effective pressure | mPa | 2.17 |

Lubrication system

| | | |
|-----------------------------|-----|-------|
| Lubricating oil capacity | L | 34 |
| Lubricating oil consumption | L/h | ≤0.14 |

Fuel system

| | | |
|-----------------------|--------|-------|
| Fuel consumption PRP | kg/h | 58.50 |
| Fuel consumption Rate | g/kW·h | |
| 25% prime power | g/kW·h | 220 |
| 50% prime power | g/kW·h | 210 |
| 75% prime power | g/kW·h | 195 |
| 100% prime power | g/kW·h | 195 |

| | | |
|--------------------|--------|-----|
| 100% standby power | g/kW·h | 197 |
|--------------------|--------|-----|

Air intake system

| | | |
|--|---------------------|------|
| Air consumption | m ³ /min | 20.9 |
| Maximum allowed intake pressure | kPa | 6.3 |
| Fuel calorific value | | N/M |
| Exhaust gas discharge | m ³ /min | 58 |
| Exhaust temperature (exhaust gas after turbine) | °C | 470 |
| Exhaust heat | kw | 225 |
| Maximum allowed back pressure | kPa | 6.7 |

Heat balance

| | | |
|---------------------------------|----|-------|
| Engine heat output | kw | 20.0 |
| Heat removal of coolant | kw | 138.0 |
| Heat dissipation of intercooler | kw | 60.0 |

Cooling system

| | | |
|---------------------------------|-----------------------|--------|
| Fan Speed Ratio | | 1.00 |
| Pump Flow head | L/s | 6.7 |
| Coolant capacity-engine | L | 18 |
| Fan diameter | mm | 890 |
| Fan speed | R/min | 1500 |
| Fan flow | m ³ /s/Pa) | 10/800 |
| Fan power consumption | kW | 11 |
| Coolant capacity-Radiator | L | 25 |
| Thermostat on / off temperature | °C | 75/85 |
| Noted:Pump Flow / Speed head | L/min/m | |

Electrical system

| | | |
|---------------------------------------|--|------|
| Auxiliary voltage (V) | | 24 V |
| Alternator (A) | | 75 |
| Starter Motor (kw) | | 7.5 |
| Start preheater (kw) | | 3.6 |
| Number of teeth of flywheel ring gear | | 137 |

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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