

# FUJIAN EPOS ELECTRIC MACHINERY CO., LTD

**EMEAN**  
POWER



**FAWDE**

ENGINE MODEL: CA6DM2J-41D

EMEAN POWER

[www.emeanpower.com](http://www.emeanpower.com)  
Email: [sale5@fjepos.com](mailto:sale5@fjepos.com)  
Phone: +86 19890349907

WHATSAPP



WECHAT





### Basic technical data

|                              |                            |               |
|------------------------------|----------------------------|---------------|
| Engine Model                 | CA6DM2J-41D                |               |
| 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       | 1500                      |
| Continuous Power without Fans      | kW          | 300                       |
| Standby Power                      | kW          | 330                       |
| Adaptive power station (kw)        | kW          | 270                       |
| Steady state speed regulation rate | %           | N/M<br>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 <sup>3</sup> /min | 20.9 |
| Maximum allowed intake pressure                    | kPa                 | 6.3  |
| Fuel calorific value                               |                     | N/M  |
| Exhaust gas discharge                              | m <sup>3</sup> /min | 58   |
| Exhaust temperature<br>(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 <sup>3</sup> /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%

---

## EMEAN POWER

[www.emeanpower.com](http://www.emeanpower.com)

Email: [sale5@fjepos.com](mailto:sale5@fjepos.com)

Phone: +86 19890349907

WHATSAPP



WECHAT

