

# FUJIAN EPOS ELECTRIC MACHINERY CO., LTD

**EMEAN**  
POWER

**WEICHAI**  
潍柴

ENGINE MODEL: WP6D132E200

EMEAN POWER


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WHATSAPP



WECHAT




	机型: <b>WP6D132E200</b> Model:	日期: 2021/2 Date:
	柴油发动机数据单 <b>Diesel Datasheet</b>	页码: 1 / 6 Page:

<b>转速</b> <b>Speed</b>	<b>发动机功率</b> <b>Gross Engine Output</b>		
	持续功率 kW COP kW	常用功率 kW PRP kW	备用功率 kW ESP kW
1500r/min	/	120	132

**功率定义解释 Ratings definitions :**


<b>功率分类</b> <b>Ratings Definitions</b>	<b>运行条件</b> <b>Operating condition</b>
持续功率 COP	1、 每年运行时间不限 ; Unlimited using time per year; 2、 在恒定的 100%负荷下运行 ; Continuous power is the maximum power available at a constant load factor; 3、 不具备超负荷能力。 No overload capability is allowed.
常用功率 PRP	1、 每年运行时间不限 ; Unlimited using time per year; 2、 运行24h上平均负荷率不能超过70% ; The average load rate is no more than 70% over 24 hours; 3、 每 12h 内, 可超负荷 10%运行 1h。 Overloading 10% for 1h within 12 hours of operation is allowed.
备用功率 ESP	1、 每年运行时间不超过200h; The annual operating time shall not exceed 200h; 2、 运行24h以上, 平均负荷率不超过70% ; The average load rate shall not exceed 70% over24h operation cycle; 3、 不具备超负荷能力; No overload capability is allowed; 4、 柴油机启动加速按照 Q/WCG136.13 进行, 没有热机过程, 由启动加速到标定转速需在 10s 内完成。自然吸气柴油机, 环境温度在 5℃以下时, 需增加预热设施保证柴油机出水温度在 30℃以上; 环境温度 5℃以上时, 无需预热设施。增压柴油机环境温度 10℃以下时, 需增加预热设

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	<p>施保证柴油机出水温度在 30°C以上；环境温度 10°C以上时，无预热设施。</p> <p>The acceleration of starting of diesel engines are carried out in accordance with Q/WCG136.13, and there' s no engine process. From acceleration of starting to calibration speed shall be completed within 10s. Natural aspirated diesel engine, when the environment temperature is below 5°C , need to increase preheat facilities to ensure that diesel engine water temperature above 30 °C. When environment temperature over 5°C, no preheating facilities are required.</p> <p>Supercharged diesel engine, when the environment temperature is below 10°C, need to increase preheat facilities to ensure that diesel engine water temperature above 30°C. When environment temperature over 10°C, no preheating facilities are required.</p>
备注 Descriptions	<p>1) 所有功率基于标准 ISO 8528-1, ISO 3046, DIN6271 , 误差范围±5%。 All ratings are based on operating conditions under ISO 8528-1,ISO 3046, DIN6271. Performance tolerance of ±5%.</p> <p>2) 测试条件：大气压力 100kPa , 25°C , 相对湿度 30% , 燃油密度 0.84kg/L ; 其他环境条件下可能需要进行功率修正 , 详情请与厂家联系。 Test conditions : 100 kPa, 25°C air inlet temperature, relative humidity of 30%, with fuel density 0.84 kg/L. Derating may be required for conditions outside these; please contact the factory for details.</p> <p>3) 所有的数据均基于发动机带燃油系统、水泵、机油泵时获得的 , 而不带有交流发电机、风扇、其它选用设备和被驱动的附件。 Power output curves are based on the engine operating with fuel system, water pump and lubricating oil pump, without battery charging alternator, fan and optional equipment.</p>

### 基础数据 Essential Data

发动机类型 Engine model ..... 柴油机 Diesel Engine  
 气缸/气门数量 N° of Cylinders / Valves ..... 6/12  
 气缸分布型式 Cylinders arrangement.....直列 L-Type  
 缸径×行程 ( mm ) Bore x Stroke ( mm ) .....105×130  
 排量(L) Displacement(L) ..... 6.75

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燃油系统型式 Fuel System	机械泵 Mechanical-Pump
进气形式 Aspiration	增压中冷 Turbocharged and aftercooled
压缩比 Compression ratio	18:1
飞轮壳尺寸 Flywheel housing	SAE1
飞轮尺寸 Flywheel	11.5"
飞轮齿圈齿数 N° of teeth on flywheel ring gear	145
飞轮转动惯量 (kg/m <sup>2</sup> ) Inertia of flywheel (kg/m <sup>2</sup> )	1.117
曲轴转动惯量 (kg/m <sup>2</sup> ) Inertia of crankshaft (kg/m <sup>2</sup> )	0.27
排放阶段 Emission standard	无排放 Non
发动机尺寸(长×宽×高) (mm) Overall Dimensions with radiator (L x W x H) (mm)	1230×552×1058 (以外形图为准 The outer chart shall prevail)
发动机干重 (kg) Engine dry weight (kg)	625±50
不带辅助启动装置时最低冷启动温度 (°C) Min.cold start temperature without auxiliary starting device(°C)	-10
带辅助启动装置时最低冷启动温度 (°C) Min. cold start temperature with auxiliary starting device (°C)	-30
包装尺寸 Packing measurement ( mm )	1637×1000×1258
运输重量 Transport weight ( kg )	745±50

### 进气系统 Air intake system


在涡轮增压器前允许的最大的进气温升(°C) Air intake temperature rise (°C)	15
清洁滤芯进气阻力 (kPa) Air intake restriction clean filter (kPa)	≤3.5
脏滤芯进气阻力 (kPa) Air intake restriction dirty filter (kPa)	≤6
额定工况下进气流量 (kg/h) Recommended air flow @ PRP (kg/h)	544
应急备用工况下进气流量 (kg/h) Recommended air flow @ ESP (kg/h)	582
推荐最小进气管直径(mm) Min. diameter of intake pipe (mm)	80

### 中冷系统 Intercooling system

25°C环境温度下的最高进气温度 (°C) Max. intake temperature @ 25°C ambient temperature (°C).	55
进气温度与环境温度的最大温差 (°C) Max. difference between intake temperature and ambient temperature (°C)	30
中冷器允许的最大压力降 (kPa) Max. intake pressure drop of intercooler (kPa)	12

### 冷却系统 Cooling system

发动机允许的最高使用环境温度 (°C) System designed for ambient temperature up to (°C)	50
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进出水外部管路的最小内径 (mm) Min. inside diameter of coolant outlet pipe (mm) .....	42
出水管报警温度 (°C) Coolant alarm (shutdown) temperature (°C) .....	101
节温器初开/全开温度 (°C) Thermostat opening temperature/full open temperature (°C).....	76/90
冷却系统内最小保持压力 (kPa) Min. pressure in cooling system (kPa) .....	50
发动机本身冷却液容量 (L) Coolant capacity of the engine (L) .....	8

## 排气系统 Exhaust system

允许最大排气背压 (kPa) Max. exhaust back pressure (kPa) .....	6.5
最大的排气温度 (涡轮前) (°C) Max. exhaust temperature before turbocharger (°C) .....	≤700
最大的排气温度 (涡轮后) (°C) Max. exhaust temperature after turbocharger (°C) .....	550
额定工况下排气流量 (kg/h) Exhaust flow @ PRP (kg/h) .....	567.8
应急备用工况下排气流量 (kg/h) Exhaust flow @ ESP (kg/h) .....	608.2
推荐排气管最小直径 (mm) Min. diameter of exhaust pipe (mm) .....	65
涡轮增压器法兰处允许的最大弯矩 (Nm) Max. bending moment of exhaust gas exit flange (Nm) .....	27

## 润滑系统 Lubrication system


油底壳机油容量 (L) Oil capacity (L) .....	20
怠速时机油压力 (kPa) Oil pressure in normal condition idle speed (kPa) .....	≥120
在额定转速下的机油压力 (kPa) Oil pressure in normal condition at rated speed .....	300-600
机油低报警压力 (kPa) Lowest oil pressure alarm (kPa) .....	120
机油低停机压力 (kPa) Lowest oil pressure shutdown (kPa) .....	120
机油最高温度 (°C) Max. oil temperature (°C) .....	105
机油流量 (L/min) Oil flow (L/min) .....	47
机油燃油消耗比 Oil fuel consumption ratio based on engine fuel consumption data .....	≤0.2%

## 噪声 Noise

发动机噪声 (声功率级) (dB(A)) Diesel engine noise (Acoustic power level) (dB(A)) .....	≤114
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## 燃油系统 Fuel system

喷油泵进油口最大进油阻力 (kPa) Max. restriction at fuel pump inlet (kPa) .....	20
喷油泵最大回油阻力 (kPa) Max. fuel return restriction (kPa) .....	20
燃油最高进油温度 (°C) Max. fuel inlet temperature (°C) .....	50
供油流量 (kg/h) Fuel supply flow (kg/h) .....	23.8-26.2
输油泵最小压力 (kPa) Min. pressure of fuel pump (kPa) .....	20
燃油进油管最小直径 (mm) Min. diameter of inlet pipe (mm) .....	12
燃油回油管最小直径 (mm) Min. diameter of return pipe (mm) .....	12


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## 电器系统 Electrical system

电气系统电压 ( 负极接地 ) (V) Electrical system voltage (negative to ground) (V) .....	24
起动机功率(kW) Starter power (kW) .....	6
充电发电机额定电流 (A) Battery charger current (A).....	35
启动回路最大电阻 (mΩ) Max. electric resistance of starting circuit (mΩ).....	2
启动回路导线最小截面积(mm <sup>2</sup> ) Min. sectional area of wire (mm <sup>2</sup> ) .....	65-85
加热格栅工作电压(V)/电流(A) Heat The Grille Voltage(V)/Current(A) .....	/

## 热平衡测试数据 (环境温度 41.6 °C)Heat balance test data ( 41.6°C )

发动机进/出水压力 Coolant inlet/ output pressure ( kPa )	额定工况 Rated working condition	0.36/4.18
	超负荷工况 Overload working condition	/
冷却液流量 Coolant flow ( m <sup>3</sup> /h )	额定工况 Rated working condition	11.1
	超负荷工况 Overload working condition	/
发动机进/出水温度 Coolant inlet/output temperature ( °C )	额定工况 Rated working condition	83.6/87.6
	超负荷工况 Overload working condition	/
中冷器前/后温度 Intercooler inlet/output temperature ( °C )	额定工况 Rated working condition	118.8/53.4
	超负荷工况 Overload working condition	/
中冷器前/后压力 Intercooler inlet/output pressure ( kPa )	额定工况 Rated working condition	84.3/84.8
	超负荷工况 Overload working condition	/
发动机总热量 Engine total heat ( kJ/s )	额定工况 Rated working condition	158.5
	超负荷工况 Overload working condition	/
中冷器散热量 Intercooler heat dissipating capacity ( kJ/s )	额定工况 Rated working condition	9.6
	超负荷工况 Overload working condition	/
排气带走的热量 The heat taken away by the exhaust ( kJ/s )	额定工况 Rated working condition	77.9
	超负荷工况 Overload working condition	/

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冷却液带走的热量 The heat taken away by the coolant ( kJ/s )	额定工况 Rated working condition	52.6
	超负荷工况 Overload working condition	/
发动机表面辐射热量 Radiation heat of the engine surface ( kJ/s )	额定工况 Rated working condition	/
	超负荷工况 Overload working condition	/
注：因测量等误差原因，表面辐射热量按发动机总热量的 5% 计算。 Note: Because of test errors and other reasons, the surface radiation heat is 5% of the engine total heat.		

### 性能数据 Performance data

活塞平均速度 (m/s) Mean Piston Speed (m/s) .....6.5  
 平均有效压力 (KPa) BMEP (KPa).....1423  
 最高爆发压力(MPa) Maximum Burst Pressure(MPa) ...../  
 最低空载稳定转速(r/min) Minimum No-load Speed(r/min)..... 750±30  
 发火次序 Ignition Order ..... 1-5-3-6-2-4  
 旋转方向 Sense of Rotation ..... 逆时针 ( 面对飞轮 ) Anticlockwise ( In the Face of Flywheel )

备注：所有参数如有更改，恕不另行通知。

Remark: All Parameters If Changed Without Prior Notice.