

产品特点

潍柴发电机组配备潍柴道依茨发动机，体积小、性能可靠、操作简单，自动检测和多种保护功能，保护柴油机安全、稳定运行。多界面显示机组工作及报警状态，直观清晰，LCD 显示柴油机的各项参数。微电脑控制面板上可设定输入、输出、报警、延时等参数。维护、手动、自动等多种工作模式。无市电非正常无电源自动起动，发电机组故障保护关机，提供历史状态记录。发电机过压/欠压、发电机低频/高频、发电机转速欠速/超速、低油压、高水温、急停、蓄电池过压/欠压、过电流/短路故障等保护功能。在标准工况下按额定功率连续运行 12 小时内，允许超载 10%功率运行 1 小时。

技术参数

50kW/62.5kVA Diesel Gen-Set Data

50kW/62.5kVA 柴油发电机组数据单



| Gen-set Specifications & Technical Features 机组规格及技术参数 | |
|---|-----------------------------|
| Gen-set Model 机组型号 | WPG68.5/T1 |
| Gen-set Producer 机组产地 | Weichai 潍柴 |
| Rated Power 额定功率 | 50kW/62.5kVA |
| Standby Power 备用功率 | 55kW/68.5kVA |
| Rated Voltage 额定电压 | 400/230V |
| Rated Frequency 额定频率 | 50Hz |
| Rated Speed 额定转速 | 1500rpm |
| Engine Model 发动机型号 | Weichai 潍柴 WP4.1D66E200 |
| Alternator Model 发电机型号 | Weichai 潍柴 WH224E |
| Controller Model 控制器品牌 | 潍柴 |
| Base Type 公用底盘类型 | Heavy steel structure 重型钢结构 |
| Circuit Breaker Type 断路器类型 | Legrand TCL 罗格朗 TCL |
| Fuel Consumption (Rated) 燃油消耗率(额定) g/kW·h | 197 |
| Oil Consumption (Rated) 滑油消耗率(额定) g/kW·h | 0.5 |
| Outline Dimensions 外形尺寸 mm (LXWXH) | 3450×1450×2040 (参考) |
| Weight 重量 kg | 1800 |

Engine Features 发动机技术参数

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| Basic Features 基本参数 <ul style="list-style-type: none"> ● Model 型号: WP4.1D66E200 ● Brand/Origin 品牌/原产地 Weichai 潍柴 ● Number of Cylinders 缸数: 4 ● Cylinder arrangement 气缸排列: Vertical in-line 直列 ● Stroke No.冲程数 Four stroke 四冲程 ● Bore & Stroke 缸径/行程 mm: 105/130 ● Displacement 排量 L: 4.5 ● Rated Power 额定功率 kW: 60 ● Standby Power 备用功率 kW: 66 | <ul style="list-style-type: none"> ● Speed 转速 r/min: 1500 ● Starting Method 启动方式: DC24V ● Speed Governor 调速方式 : Electronic 电子调速 /Mechanical 机械调速 ● Compression Ratio 压缩比: 18:1 ● Aspiration 进气方式: turbocharged 涡轮增压 ● Cooling 冷却方式 : Closed Water- cooled 水冷 ● Steady-state Speed Adjustable Rate 稳态调速率 : <3% (Electronic 电调) <5% (Mechanical 机调) |
| Lubrication System 润滑系统 <ul style="list-style-type: none"> ● Oil filter type 机油滤清器控制方式: Full-flow 全流式 ● Oil pan capacity 油底壳容量 L: 10 ● Oil type 机油类型: CF15W/40 | Fuel System 燃油系统 <ul style="list-style-type: none"> ● Fuel filter type 燃油滤清器类型: Rotary 旋装 ● 推荐燃油: 环境温度≥-5℃ -10# GB252 |
| Air Intake System 进气系统 <ul style="list-style-type: none"> ● Air filter type 空气滤清器: Dry-type 纸质干式 ● Max. exhaust back pressure(kPa)最大进气阻力: 6 ● Exhaust-gas mass flow 空滤器流量 kg/h : 350 | Exhaust System 排气系统 <ul style="list-style-type: none"> ● Silencer type 消声器类型: Horizontal 卧式 ● Noise reduction 消声降噪 dB(A): 15 ● Max. exhaust temperature排气温度℃: ≤550 |
| Cooling System 冷却系统 <ul style="list-style-type: none"> ● Cooling water capacity 冷却水容量 L: 11 ● Pump type 水泵类型: Centrifugal 离心式 | |

Alternator Features 发电机技术参数

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| Basic Features 基本参数 <ul style="list-style-type: none"> ● Brand 品牌: Weichai 潍柴 ● Model 型号: XN224E ● Rated Power 额定功率 50kW/62.5kVA ● Standby 备用功率 55kW/68.5kVA ● Numbers of Bearing 轴承数量: 1 ● Insulation Grade 绝缘等级: H | <ul style="list-style-type: none"> ● Protection Grade 防护等级: IP21 ● Coil span 线圈节距: 2/3 ● Winding type 绕组绕线方式: 12 ● Excitation 励磁方式 : 无刷 brushless ● efficiency 效率 88.6% ● AVR Model 型号 AS440 |
| Electrical Features 电气指标 | |

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|---|---|
| <p>Electrical Features 电气指标</p> <ul style="list-style-type: none"> ● Steady-State Volt Adjustable Rate 稳态电压调整率： ≤±1% ● Electromagnetic interference factor 电磁干扰系数： TIF:50;THF: 2% | <p>Total Harmonic Distortion 总谐波含量 L-L/L-N: 4%</p> <ul style="list-style-type: none"> ● Power factor 额定功率因数: 0.8 (滞后 lag) |
| <p>Display Data 显示参数</p> <ul style="list-style-type: none"> ● Engine Data: Speed, Oil Pressure, Water Temperature, Battery Volt, Running Timing 发动机参数: 转速、油压、水温、电池电压和运行小时数 ● Alternator Data: Gen-set/Mains Frequency, Gen-set/Mains 3-Phase Volt(L-L,L-N) 、Current, kVA、kW、PF、kVAR、kWh、kVAh、kVARh 发电机参数: 机组/市电频率、机组/市电三相电压(L-L,L-N)、三相电流、容量、有功功率、功率因数、无功功率、总有功、总容量、总无功 <p>Detection and protection function 监控与保护功能</p> <ul style="list-style-type: none"> ● Over / under speed, Low Oil Pressure, High Water Temperature, under Battery Volt, Low water level, Three failed to start alarm 超速/欠速、油压低、水温高、蓄电池电压低、三次启动失败告警 ● Over / under voltage, Over current, Over / under frequency, Over Power, Short circuit 过/欠电压、过电流、过/欠频率、过功、短路: | <p>Optional features 选配功能(若有需要,请单独咨询)</p> <ul style="list-style-type: none"> ● RS485 (DSE7320) RS485 通信接口 (DSE7320) ● Fuel level display and low-alarm 燃油位显示及报警 ● Water level low-alarm 水位低报警 ● Water Pre- heating in low temperature 低温水预热 ● ATS 双电源自动切换 ● Automatic parallel (DSE8610) 自动并联 (DSE8610) ● Other self-definition functions 其他自定义功能 |
| <p>Remarks 备注</p> | |
| <p>Rated Power Definition 额定功率定义:</p> <ul style="list-style-type: none"> ● These rating are applicable for supplying continuous electrical power (at variable load)in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this | <p>Standby Power Definition 备用功率定义:</p> <ul style="list-style-type: none"> ● These rating are applicable for supplying continuous electrical power (at variable load)in the lieu of commercially purchased power .There is no limitation to the annual hours of operation and this |

model is peak continuous tested(as defined in ISO 8528-3).

额定功率 (PRP) 是指在规定的维修周期之间和规定的环境条件下, 发电机组能够在 24 小时之内连续使用的最大功率我们称之为连续功率, 即额定功率。

Standard reference condition 标准参考条件

- Ambience Tem.环境温度: 25°C;
- Above sea level.海拔高度: ≤100m ;
- Relative humidity 相对湿度: 30%;

model can supply 10% overload for 1 hour to 12 hours.

备用功率 (LTP) 是指发电机组在规定的维修周期之间和规定的环境条件下, 在某一时间内, 标准是每 12 个小时之内有 1 个小时可在额定功率的基础上超载 10%, 此时的机组功率就是我们平时说的最大功率, 即备用功率。

Quality certification 质量认证标准

- GB/T2820: ISO 8528;
- BS4999: BS5000;
- IEC60034

Attached materials 随机资料

- Manual Operation 操作维护手册
- Wiring layout 接线图

Time of warranty 保质期

- 12 months from Delivery or 1500h, whichever is the first 机组出厂之日起 12 个月或者 1500h, 先到者为准。

Optional 选配件 (若有需要, 请单独咨询):

- 8h fuel tank with chassis 8h 底盘油箱
- Independent fuel tank 独立油箱
- Independent ATS Cabinet 独立 ATS 切换箱

Optional 选配件 (若有需要, 请单独咨询):

- Tools 随机工具
- Spares 随机备件