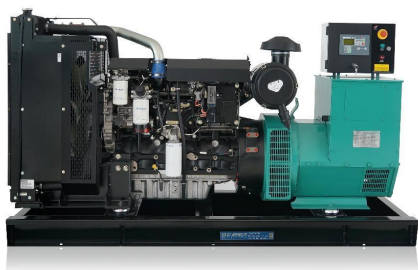




## 柴油发电机组技术参数 Diesel Generating Set Technical Specification



OPEN TYPE

SILENT TYPE

|                                                                 |                           |                                                        |                                          |                           |                      |                       |         |  |
|-----------------------------------------------------------------|---------------------------|--------------------------------------------------------|------------------------------------------|---------------------------|----------------------|-----------------------|---------|--|
| 制造商<br>Manufacturer                                             |                           | 山东华力机电有限公司<br>SHANDONG HUALI ELECTROMECHANICAL CO.;LTD |                                          |                           | 机组型号<br>Genset Model |                       | HL120GF |  |
| 频率 Frequency                                                    |                           | 转速 Speed                                               | 电压 Voltage                               | 功率 Power                  |                      | 千瓦 KW                 | 千伏安 KVA |  |
| 50Hz                                                            |                           | 1500 rpm                                               | 400V                                     | 备用功率 Standby Power        |                      | 132                   | 165     |  |
| 50Hz                                                            |                           | 1500 rpm                                               | 400V                                     | 主用功率 Prime Power          |                      | 120                   | 150     |  |
| 机组尺寸、重量<br>Genset Dimensions and Weights                        |                           | 开 放 型<br>OPEN STYLE                                    | 尺 寸 Overall Size L×W×H, mm               |                           |                      | 2380*1000*1500        |         |  |
|                                                                 |                           |                                                        | 净 重, Weight (net) kg                     |                           |                      | 1300                  |         |  |
|                                                                 |                           | 静 音 型<br>SOUNDPROOF STYLE                              | 尺 寸 Overall Size L×W×H, mm               |                           |                      | 3300*1200*1710        |         |  |
|                                                                 |                           |                                                        | 净 重, Weight(net) kg                      |                           |                      | 2700                  |         |  |
| Voltage regulation (电压整定范围):                                    |                           |                                                        |                                          |                           |                      | ≥±5%                  |         |  |
| Voltage Regulation, Stead State (稳定电压调整率):                      |                           |                                                        |                                          |                           |                      | ≤±1%                  |         |  |
| Sudden Voltage Warp (100% Sudden Reduce) (瞬态电压偏差(100%突减功率)):    |                           |                                                        |                                          |                           |                      | ≤+25%                 |         |  |
| Sudden voltage Warp(Sudden Increase) (瞬态电压偏差(突加功率)):            |                           |                                                        |                                          |                           |                      | ≤-20%                 |         |  |
| Voltage Stable Time (100% Sudden Reduce) (电压稳定时间(100%突减功率)):    |                           |                                                        |                                          |                           |                      | ≤6S                   |         |  |
| Voltage Stable Time(Sudden Increase) (电压稳定时间(突加功率)):            |                           |                                                        |                                          |                           |                      | ≤6S                   |         |  |
| Frequency Regulation, Stead State (稳态频率调整率):                    |                           |                                                        |                                          |                           |                      | ≤5%                   |         |  |
| Frequency Waving (频率波动率):                                       |                           |                                                        |                                          |                           |                      | ≤1.5%                 |         |  |
| Sudden Frequency Warp (100%Sudden Reduce) (瞬态频率偏差(100%突减功率)):   |                           |                                                        |                                          |                           |                      | ≤+12%                 |         |  |
| Sudden Frequency Warp (Sudden Increase) (瞬态频率偏差(突加功率)):         |                           |                                                        |                                          |                           |                      | ≤-10%                 |         |  |
| Frequency Recovery Time (100%Sudden Reduce) (频率恢复时间(100%突减功率)): |                           |                                                        |                                          |                           |                      | ≤5S                   |         |  |
| Frequency Recovery Time (Sudden Increase) (频率恢复时间(突减功率)):       |                           |                                                        |                                          |                           |                      | ≤5S                   |         |  |
| 发 动 机 DIESEL ENGINE                                             |                           |                                                        |                                          |                           |                      |                       |         |  |
| 发动机型号 Engine Model                                              |                           |                                                        | 1106A-70TAG2                             |                           |                      |                       |         |  |
| 制造商 Manufacturer                                                |                           |                                                        | PERKINS ENGINE COMPANY LIMITED 铂金斯动力有限公司 |                           |                      |                       |         |  |
| 发动机转速<br>Engine speed<br>(rpm)                                  | 工作状态<br>Type of Operation | 发电输出功率<br>Typical Generator Output (Net)               |                                          | 发动机功率 Engine Power        |                      |                       |         |  |
|                                                                 |                           |                                                        |                                          | Gross 毛功率                 |                      | Net 净功率               |         |  |
|                                                                 |                           | kVA                                                    | kW                                       | kW                        | bhp                  | kW                    | bhp     |  |
| 1500                                                            | 常用 Primer Power           | 150                                                    | 120                                      | 136.0                     | 182.4                | 132.0                 | 175.7   |  |
|                                                                 | 备用 Standby Power          | 165                                                    | 132                                      | 153.6                     | 206.0                | 144.1                 | 193.2   |  |
| 缸数 Number of cylinders                                          |                           | 6                                                      |                                          | 气缸排列 Cylinder arrangement |                      | 立式直列 Vertical in-line |         |  |
| 循环周期 cycle                                                      |                           | 4 冲程 4-cycle                                           |                                          | 进气方式 Aspiration           |                      | 涡轮增压 Turbocharged     |         |  |
| 燃烧方式 Combustion system                                          |                           | 直接喷射 Direct injection                                  |                                          | 缸径 Bore(mm)               |                      | 105                   |         |  |

Specifications may change without notice  
参数更改不再另行通知



|                               |      |                              |                 |
|-------------------------------|------|------------------------------|-----------------|
| 冲程 Stroke (mm)                | 135  | 压缩比 Compression ratio        | 16.0:1          |
| 排量 Displacement, total (L)    | 7.01 | 冷却方式 Cooling system          | 水冷 Water cooled |
| 冷却液总容量 Total coolant capacity | 21L  | 润滑油总容量 Total Lubrication (L) | 16.5            |
| 净重 Engine weight, dry (kg)    | 788  |                              |                 |

## 发电机参数 ALTERNATOR SPECIFICATION

|                         |                             |                        |                                    |
|-------------------------|-----------------------------|------------------------|------------------------------------|
| 制造商 Manufacturer        | 无锡斯坦福 WUXI STAMFORD         | 发电机型号 Alternator Model | UCI274F14                          |
| 频率 Frequency            | 50 HZ                       | 额定转速 Rated Speed (RPM) | 1500                               |
| 电压调节 Voltage Regulation | ±5%                         | 额定电压 Prime Voltage (V) | 400                                |
| 相数 Number of Phase      | 3                           | 海拔要求 Altitude          | ≤1000m                             |
| 功率因数 Power Factor       | 0.8                         | 防护等级 Protection Grade  | IP23                               |
| 接线方式 Connecting Type    | 3 Phase and 4 Wires<br>三相四线 | 励磁方式 Exciter Type      | Brush less, self-exciting<br>无刷自励磁 |
| 绝缘等级 Insulation Class   | H                           | 温升等级 Temperature Rise  | H                                  |
| 电话影响系数 TIF              | <50                         | 电话谐波系数 THF             | <2%                                |

## 控制系统 CONTROL SYSTEM

### 工作环境: (Work environment)

工作温度 Operating temperature : -20℃~60℃      相对湿度 Relative Humidity : 95%  
工作电压 Operating voltage : DC24V (范围 range : 18-30V, 耐压 pressure : 50V/5 mm)

|                  |                                                                                     |                    |                                                                                       |
|------------------|-------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------|
| 开架式<br>Open Type |  | 静音型<br>Silent Type |  |
|------------------|-------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------|

## 模块描述 Description

| 标准功能 Standard functions                                                                                                                  | 停机 Shutdown                                                                                                                                                                                                                                                                                                                                                          | 报警 Warning                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 发动机控制 Engine Control<br>发电机组监测 Generator Monitoring<br>机组保护 Generator Protection<br>发动机监测 Engine Monitoring<br>测试显示清理 Clear Text Display | 降速显示 Loss of Speed Signal<br>发电机欠压/过压 Alternator Under / Over Voltage<br>发电机低频/超频 Alternator Under/ Over Frequency<br>市电欠压/过压 Mains Under / Over Voltage<br>市电低频/超频 Mains Under/ Over Frequency<br>低速/超速 Under / Over Speed<br>低油压 Low Oil Pressure<br>发动机高温 High Engine Temperature<br>电子相序(可选) Phase Sequence Electrical (Option)<br>接地故障(可选) Earth Fault (Option) | 发电机欠压/过压 Alternator Under / Over Voltage<br>发电机低频/超频 Alternator Under/ Over Frequency<br>市电欠压/过压 Mains Under / Over Voltage<br>市电低频/超频 Mains Under/ Over Frequency<br>低速/超速 Under / Over Speed<br>低油压预警 Low Oil Pressure Pre-Alarm<br>发动机高温预警 High Engine Temperature Pre-Alarm<br>电池电压过高/过低 High/Low Battery Voltage<br>过流 Over-current<br>定期维护 Periodic maintenance |