

## 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       | HL30GF         |         |
|                                                                  |                                                        |                           |                            |                |         |
| 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         | 33             | 41      |
| 50Hz                                                             | 1500 rpm                                               | 400V                      | 主用功率 Prime Power           | 30             | 37.5    |
| 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 | 1900*800*1200  |         |
|                                                                  |                                                        | 静 音 型<br>SOUNDPROOF STYLE | 净 重, Weight (net) kg       | 720            |         |
|                                                                  |                                                        |                           | 尺 寸 Overall Size L×W×H, mm | 2840*1130*1720 |         |
|                                                                  |                                                        |                           | 净 重, Weight(net) kg        | 1400           |         |
| 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 参 数 DIESEL ENGINE SPECIFICATION

|                                 |                                               |                                |                |
|---------------------------------|-----------------------------------------------|--------------------------------|----------------|
| 发动机型号 Engine Model              | YC4D60-D25                                    |                                |                |
| 制造商 Manufacturer                | 广西玉柴机器股份有限公司 GUANGXI YUCHAI MACHINERY Co.,Ltd |                                |                |
| 缸数 Number of cylinders          | 4                                             | 循环周期 cycle                     | 4 冲程 4-cycle   |
| 进气方式 Air intake way             | 自然吸气 Natural                                  | 缸径 Bore(mm)                    | 108            |
| 冲程 Stroke (mm)                  | 115                                           | 压缩比 Compression ratio          | 17.0: 1        |
| 排量 Displacement, total (L)      | 4.214                                         | 净重 Engine weight,dry (kg)      | 360            |
| 发动机转速 Engine speed (rpm)        | 1500                                          | 启动方式 Starter Mode              | Electric (电启动) |
| 常用功率 Base Output Power (kW)     | 40                                            | 备用功率 Standby Power (kW)        | 44             |
| 机油容量 Oil Capacity (L)           | 9-11                                          | 机油消耗率 Oil Consumption g/(Kw.h) | ≤1.8           |
| 燃油消耗率 Fuel Consumption g/(Kw.h) | ≤240                                          |                                |                |

## 发 电 机 参 数 ALTERNATOR SPECIFICATION

|                         |                             |                           |                                   |
|-------------------------|-----------------------------|---------------------------|-----------------------------------|
| 制造商<br>Manufacturer     | 山华<br>SHANHUA               | 发电机型号<br>Alternator Model | HLF-30                            |
| 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     | IP21                              |
| 接线方式 Connecting Type    | 三相四线<br>3 Phase and 4 Wires | 励磁方式 Exciter Type         | 无刷自励磁<br>Brush less,self-exciting |
| 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  
Open Type



静音型  
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<br>Generator Monitoring<br>机组保护<br>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<br>Alternator Under / Over Voltage<br>发电机低频/超频<br>Alternator Under/ Over Frequency<br>市电欠压/过压 Mains Under / Over Voltage<br>市电低频/超频<br>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)<br>Phase Sequence Electrical (Option)<br>接地故障 (可选) Earth Fault (Option) | 发电机欠压/过压<br>Alternator Under / Over Voltage<br>发电机低频/超频<br>Alternator Under/ Over Frequency<br>市电欠压/过压<br>Mains Under / Over Voltage<br>市电低频/超频<br>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<br>High Engine Temperature Pre-Alarm<br>电池电压过高/过低<br>High/Low Battery Voltage<br>过流 Over-current<br>定期维护 Periodic maintenance |

Specifications may change without notice

参数更改不再另行通知