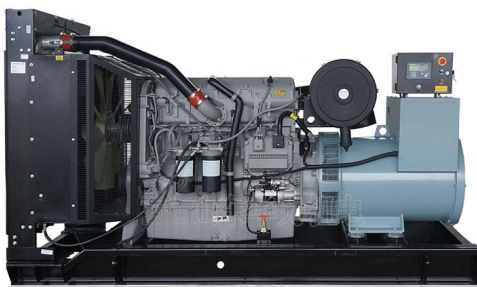




## HL500GF 铂金斯柴油发电机组技术参数

### HL500GF PERKINS Diesel Generator Set Technical Data



## 柴油发电机组技术参数

### (Diesel Generator Set Technical Data)

|                                  |                      |
|----------------------------------|----------------------|
| <b>Standby power (50HZ) 备用功率</b> | <b>550KW /688KVA</b> |
| <b>Prime Power (50HZ) 主用功率</b>   | <b>500KW /625KVA</b> |

|                                                                         |                |
|-------------------------------------------------------------------------|----------------|
| <b>Voltage regulation (电压整定范围):</b>                                     | $\geq \pm 5\%$ |
| <b>Voltage Regulation, Stead State (稳定电压调整率):</b>                       | $\leq \pm 1\%$ |
| <b>Sudden Voltage Warp (100% Sudden Reduce) (瞬态电压偏差 (100%突减功率)):</b>    | $\leq +25\%$   |
| <b>Sudden voltage Warp(Sudden Increase) (瞬态电压偏差 (突加功率)):</b>            | $\leq -20\%$   |
| <b>Voltage Stable Time (100% Sudden Reduce) (电压稳定时间 (100%突减功率)):</b>    | $\leq 6S$      |
| <b>Voltage Stable Time(Sudden Increase) (电压稳定时间 (突加功率)):</b>            | $\leq 6S$      |
| <b>Frequency Regulation, Stead State (稳态频率调整率):</b>                     | $\leq 5\%$     |
| <b>Frequency Waving (频率波动率):</b>                                        | $\leq 1.5\%$   |
| <b>Sudden Frequency Warp (100%Sudden Reduce) (瞬态频率偏差 (100%突减功率)):</b>   | $\leq +12\%$   |
| <b>Sudden Frequency Warp (Sudden Increase) (瞬态频率偏差 (突加功率)):</b>         | $\leq -10\%$   |
| <b>Frequency Recovery Time (100%Sudden Reduce) (频率恢复时间 (100%突减功率)):</b> | $\leq 5S$      |
| <b>Frequency Recovery Time (Sudden Increase) (频率恢复时间 (突减功率)):</b>       | $\leq 5S$      |

#### 发 动 机 DIESEL ENGINE

发动机型号 Engine Model

**2806A-E18TAG2**

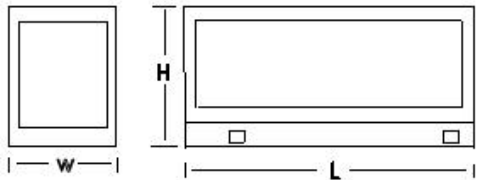
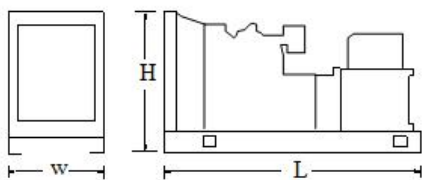
*You demand is the power of huali !!*



| 制造商 Manufacturer                |                           | PERKINS ENGINE COMPANY LIMITED 铂金斯动力有限公司 |       |                             |         |                       |       |
|---------------------------------|---------------------------|------------------------------------------|-------|-----------------------------|---------|-----------------------|-------|
| 发 动 机 功 率 数 据 ENGINE POWER DATA |                           |                                          |       |                             |         |                       |       |
| 发动机转速<br>Engine speed<br>(rpm)  | 工作状态<br>Type of Operation | 发电输出功率                                   |       | 发动机功率 Engine Power          |         |                       |       |
|                                 |                           | Typical Generator Output (Net)           |       | Gross 毛功率                   |         | Net 净功率               |       |
|                                 |                           | kVA                                      | kW    | kW                          | bhp     | kW                    | bhp   |
| 1500                            | 基础负载<br>Base load Power   | 500.0                                    | 400.0 | 446.0                       | 598.0   | 435.0                 | 583.0 |
|                                 | 常用 Primer Power           | 650.0                                    | 520.0 | 584.0                       | 783.0   | 565.0                 | 758.0 |
|                                 | 备用 Standby Power          | 700.0                                    | 560.0 | 628.0                       | 842.0   | 609.0                 | 817.0 |
| 基 础 数 据 ENGINE SPECIFICATIONS   |                           |                                          |       |                             |         |                       |       |
| 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)                 |         | 145                   |       |
| 冲程 Stroke (mm)                  |                           | 183                                      |       | 压缩比 Compression ratio       |         | 14.5:1                |       |
| 排量 Displacement, total (L)      |                           | 18.1                                     |       | 冷却方式 Cooling system         |         | 水冷 Water cooled       |       |
| 冷却液总容量 Total coolant capacity   |                           | 61L                                      |       | 润滑油总容量Total Lubrication (L) |         | 62                    |       |
| 净重 Engine weight,dry (kg)       |                           | 2050                                     |       |                             |         |                       |       |
| 燃 油 消 耗 CONSUMPTION             |                           |                                          |       |                             |         |                       |       |
|                                 |                           | 1500rpm                                  |       |                             | 1800rpm |                       |       |
| 工作状态 Type of Operation          |                           | g/kWh                                    |       | L/hr                        |         | g/kWh L/hr            |       |
| 备用功率 Standby power              |                           | 203                                      |       | 143                         |         | 203 141               |       |
| 常用功率 prime power                |                           | 202                                      |       | 132                         |         | 202 127               |       |
| 75% 常用功率 75% prime power        |                           | 198                                      |       | 97                          |         | 201 95                |       |
| 50% 常用功率 50% prime power        |                           | 201                                      |       | 66                          |         | 210 66                |       |

| 发 电 机 参 数 ALTERNATOR SPECIFICATION |                             |                           |                                    |
|------------------------------------|-----------------------------|---------------------------|------------------------------------|
| 制造商<br>Manufacturer                | 无锡斯坦福<br>WUXI STAMFORD      | 发电机型号<br>Alternator Model | HCI544FS                           |
| 频率 Frequency                       | 50 HZ                       | 额定转速 Rated Speed (RPM)    | 1500                               |
| 电压调整 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               | 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                           | 绝缘等级 Temperature Rise     | H                                  |
| 电话影响系数 TIF                         | <50                         | 电话谐波系数 THF                | <2%                                |

| 机 组 尺 寸、重 量 Genset Dimensions and Weights |                  |                        |
|-------------------------------------------|------------------|------------------------|
|                                           | 开 放 型 OPEN STYLE | 静 音 型 SOUNDPROOF STYLE |
| 尺 寸 Overall Size L×W×H, mm                | 3530*1460*2100   | 5420*2040*2610         |
| 净 重, Weight(radiator model), net, kg      | 4300             | 7000                   |



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开放型 OPEN STYLE

静音型 SOUNDPROOF STYLE

注: 随着产品不断更新和完善, 以上内容可能有变动, 恕不另行通知。

NOTE: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

## 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 )

### 总体功能及特征: (General functions and features)

控制屏具有体积小、性能可靠、操作简单, 内部线路清晰, 便于检测。具有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。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。

Control screen is small, reliable performance, simple operation, the internal circuits clear, easy detection. With automatic detection and protection features protect the engine safe and stable operation. Multi-interface display unit work and alarm state, intuitively clear, LCD displays the parameters of diesel engines. Microcomputer can be set on the control panel input, output, alarm, delay and other parameters. Maintenance, manual, automatic and other modes of operation. No non-normal electricity supply automatic starting, generator fault protection off, to provide historical state records. Generator over / under voltage, generator frequency / high frequency generator speed due to speed / overspeed, low oil pressure, high temperature, emergency stop, battery over / under voltage, over current / short circuit protection function.

|                             |                                                                                    |                               |                                                                                      |
|-----------------------------|------------------------------------------------------------------------------------|-------------------------------|--------------------------------------------------------------------------------------|
| <p>开架式</p> <p>Open Type</p> |  | <p>静音型</p> <p>Silent Type</p> |  |
|-----------------------------|------------------------------------------------------------------------------------|-------------------------------|--------------------------------------------------------------------------------------|

## 模块描述 Description

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