



# JIANGSU JIANGHAO GENERATOR SETS CO., LTD

Diesel Generator Sets

|                         |              |
|-------------------------|--------------|
| <b>Type</b>             | JHV-500GF    |
| <b>Frequency (50HZ)</b> | 500kw/625KVA |

## Standard configuration

Overall description:

- Engine
- Meet the environmental temperature 40 °C water tank radiator, Driving belt cooling fans, with fan safety shield
- 24 V charging generators
- Generator : Single bearing generator , IP23 Grading Protection, H Insulation degree
- shock absorber
- Dry air filter、 Fuel filter、 Oil filter
- Power output circuit breaker
- Standard control panel
- 12 V battery and battery connection cables
- Exhaust pipe、 Corrugated shock tube、 flange、 Muffler set
- Random use material

## Sales commitment

The products that we provide are all new, each unit all pass the strict production testing.

All of our product offer warranty service, the warranty time of unit commissioning acceptance after the 12 months or accumulative total 1000 operating hours. Whichever occurs first.

## The main parameters of the engine

|                       |  |
|-----------------------|--|
| Brand:                | VOLVO  |
| Model:                | TWD1643GE  |
| Spare power:          | 536KW/670KVA   |
| Type:                 | four strokes, waste gas turbine boost,direct spurting type |
| Cooling way:          | water cooling  |
| With type:            | Inline type  |
| Bore*Trip:            | 144mm*165mm  |
| Cylinder:             | 6 cylinders  |
| Displacement:         | 16.12L   |
| Lubricating Capacity: | 48L  |
| Speed adjustment way: | electronic speed   |
| Rotating speed:       | 1500r/min  |



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Starting way: starting with electricity

### The main parameters of the generator

|                                  |  |
|----------------------------------|--|
| Brand:                           | Stamford                                     |
| Model:                           | HCI 544F-S                                   |
| Type:                            | brushless (AVR automatic voltage regulating) |
| The connecting way of the phase: | three phases four lines                      |
| Insulation degree:               | H degree                                     |
| TIF:                             | <50  |
| THF:                             | <2%  |
| The factor of rated power:       | $\leq \pm 1\%$                               |
| Grading Protection:              | IP23   |

### Unit parameters

|   |                      |
|---|----------------------|
| Power:  | 500kw/625KVA         |
| Rated voltage:                                  | 400V/230V            |
| Rated current:                                  | 900A                 |
| Rated frequency:                                | 50 HZ                |
| The factor of rated power:                      | 0.8                  |
| The regulating rate of instantaneous voltage:   | $\leq -15\% / +20\%$ |
| The regulating rate of steady voltage:          | $\leq \pm 1\%$       |
| The time of steady voltage:                     | $\leq 3\text{sec}$   |
| The waving rate of voltage:                     | $\leq 0.5\%$         |
| Voltage waveform distortion degree:             | $\leq 8\%$           |
| The regulating rate of steady frequency:        | $\leq 5\%$           |
| The regulating rate of instantaneous frequency: | $\leq -10\% / +12\%$ |
| The time of steady frequency:                   | 3sec                 |
| The waving rate of frequency:                   | $\leq 1.5\%$         |
| The waste of fuel with full load:               | 199g/kw.h            |
| Size (mm):                                      | 3350*1350*1950       |
| Weight(kg):                                     | 3600                 |



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## Optional parts

| Engine  | Fuel system  | Electrical system   |
|---|--|---|
| <ul style="list-style-type: none"> <li>● Water jacket heater</li> <li>● Floating battery charger</li> </ul> | <ul style="list-style-type: none"> <li>● Diesel oil daily tank</li> <li>● The base fuel tank</li> <li>● Oil-water separator</li> </ul> | <ul style="list-style-type: none"> <li>● Automation unit control panel</li> <li>● With the function of "three remote" unit control panel</li> <li>● ATS Automatic load conversion screen</li> <li>● Expert panel</li> </ul> |

| Generator  | Others   | Materials  |
|--|--|--|
| <ul style="list-style-type: none"> <li>● Prevent condensation heater (PMG)</li> <li>● Droop (with the weaver)</li> </ul> | <ul style="list-style-type: none"> <li>● Rainproof type unit</li> <li>● Mute type unit</li> <li>● Drag model unit</li> </ul> | <ul style="list-style-type: none"> <li>● Engine spare parts pictures</li> <li>● Spare parts</li> </ul> |

## Standard control panel



Standard unit control panel can satisfy the unit normal operation, with simple operation, the function is all ready, protection and reliable. The screen can receive distance open/stop unit control signal. (ATS control)

Function characteristics: Smartgen controller; Liquid crystal display (LCD); can Chinese/English display a variety of electricity and oil machine parameters; With automatic and manual, shutdown (urgent stop) control functions, has oil pressure, temperature, high, low voltage high, speeding, low voltage, frequency and high, low frequency, flow and so on many kinds of protection function, can meet the needs of the various units.



## Automatic control panel



Automation unit control panel is unattended automation units of the most basic configuration. The screen can receive distance open/stop unit control signal. (ATS control)

Function characteristics: Smartgen intelligent controller; LCD display; All Chinese (also can English) operation, show menus; unit has to be automatic and manual, shutdown (urgent stop) control function, rich programmable output, input interface and human interface, multi-function LCD monitor, the parameters of the inspection data, symbol, straight through the figure shows at the same time; The standard communication interface; RS-485 (Modbus communication protocol), meet the user through communication (network) or the central monitoring system (PC) on the unit to realize "remote control", "remote sensing", "remote quote" monitoring function, can meet the needs of all kinds of automatic generating set.

## Automatic incorporative control panel



Automation of control by the weaver screen generator various parameters of acquisition and unit of the communication between, according to user Settings by the value to be automatic high-speed computation, unit of voltage and frequency, phase Angle automatic adjustment and synchronization, automatic feeder, the weaver. And then on the unit and between the meritorious and reactive power management and coordination in the system and control unit. The whole process is computer has full-automatic digital control, unit has to be automatic start, automatic synchronous weaver, automatic load distribution designer, and the expert to be automatic outfit unloading, inverse power protection unit, various fault protection, load overload protection, with flexibility to add and subtract load function, and to reduce the impact of the unit.