



## Genset

Model	JHW5-150GF
Voltage	400/230V
Frequency&Speed	50HZ 1500RPM
Prime Power	151kW/189kVA
Standby Power	167kW/208kVA

- Engine: Weichai WP7D185E310
- Alternator: Stamford/Leroy Somer /Hengsheng
- Controller: DeepSea/SmartGen /DEIF/ComAp

## General Engine Data

转速 Speed	发动机功率 Gross Engine Output		
	持续功率 kW COP kW	常用功率 kW PRP kW	备用功率 kW ESP kW
1500r/min	/	168	185

发动机类型 Engine model .....柴油机 Diesel Engine  
气缸/气门数量 N° of Cylinders / Valves ..... 6/24  
气缸分布型式 Cylinders arrangement .....直列 Line  
缸径×行程 ( mm ) Bore x Stroke ( mm ) .....108×136  
排量(L) Displacement(L) ..... 7.47  
燃油系统型式 Fuel System ..电控高压共轨 Electronically controlled high pressure common rail  
进气形式 Aspiration .....增压中冷 Turbocharged and aftercooled  
压缩比 Compression ratio ..... 17.5  
飞轮壳尺寸 Flywheel housing ..... SAE1  
飞轮尺寸 Flywheel ..... 11.5"  
飞轮齿圈齿数 N° of teeth on flywheel ring gear ..... 159  
飞轮转动惯量 (kg/m<sup>2</sup>) Inertia of flywheel (kg/m<sup>2</sup>) ..... 0.94  
曲轴转动惯量 (kg/m<sup>2</sup>) Inertia of crankshaft (kg/m<sup>2</sup>) ..... 0.298  
排放阶段 Emission standard .....中国非道路三阶段 Non-road China III  
发动机尺寸(长×宽×高) (mm) Overall Dimensions with radiator (L x W x H) (mm)  
.....1367×838×1191 ( 以外形图为准 The outer chart shall prevail )  
发动机干重 (kg) Engine dry weight (kg) ..... 700±20  
不带辅助启动装置时最低冷启动温度 (°C) Min.cold start temperature without auxiliary starting device(°C) ..... -10  
带辅助启动装置时最低冷启动温度 (°C) Min. cold start temperature with auxiliary starting device (°C)  
..... -35  
包装尺寸 Packing measurement ( mm ) .....1500×982×1380  
运输重量 Transport weight ( kg ) ..... 830±20

油底壳机油容量 (L) Oil capacity High (L) .....	20/24
怠速时机油压力 (kPa) Oil pressure in normal condition idle speed (kPa) .....	100-300
在额定转速下的机油压力 (kPa) Oil pressure in normal condition at rated speed.....	350-600
机油低报警压力 (kPa) Lowest oil pressure alarm (kPa) .....	150
机油低停机压力 (kPa) Lowest oil pressure shutdown(kPa).....	150
机油最高温度(°C) Max. oil temperature (°C) .....	85~115
机油流量 (L/min) Oil flow (L/min) .....	95
机油燃油消耗比 Oil fuel consumption ratio based on engine fuel consumption data .....	≤0.1%
喷油泵进油口最大进油阻力 (kPa) Max. restriction at fuel pump inlet (kPa) .....	9
喷油泵最大回油阻力 (kPa) Max. fuel return restriction (kPa) .....	≤12
燃油最高进油温度 (°C) Max. fuel inlet temperature (°C).....	70
供油流量 (kg/h) Fuel supply flow (kg/h).....	33.1~36.3
输油泵最小压力 (kPa) Min. pressure of fuel pump (kPa).....	50
燃油进油管最小直径 (mm) Min. diameter of inlet pipe (mm).....	12
燃油回油管最小直径 (mm) Min. diameter of return pipe (mm) .....	12
电气系统电压 ( 负极接地 ) (V) Electrical system voltage (negative to ground) (V) .....	24
起动机功率(kW) Starter power (kW) .....	6
充电发电机额定电流 (A) Battery charger current (A).....	70
启动回路最大电阻 (mΩ) Max. electric resistance of starting circuit (mΩ) .....	4
启动回路导线最小截面积(mm <sup>2</sup> ) Min. sectional area of wire (mm <sup>2</sup> ) .....	50
加热格栅工作电压(V)/电流(A) Heat The Grille Voltage(V)/Current(A) .....	20~28/100
在涡轮增压器前允许的最大的进气温升(°C) Air intake temperature rise (°C) .....	≤5
清洁滤芯进气阻力 (kPa) Air intake restriction clean filter (kPa).....	≤3.5
脏滤芯进气阻力 (kPa) Air intake restriction dirty filter (kPa).....	≤6
额定工况下进气流量 (kg/h) Recommended air flow @ PRP (kg/h) .....	785
应急备用工况下进气流量 (kg/h) Recommended air flow @ ESP (kg/h).....	845

## Alternator

Pole No.	4-Pole	
Exciter Type	Single bearing, Brushless, Self-excited	✧ NEMAMG1.JIANGHAO,and ANSI standards compliance for temperature rise and motor starting.
Power factor	0.8	
Voltage adjust range	≤ 5%	✧ Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
Insulation Grade	H	
Protection Grade	IP23/22	
Phase / wire	3 phase 4 wires	✧ Sustained short-circuit current enabling down stream circuit breakers to trip without collapsing the generator field.
✧ Superior voltage waveform from two-thirds Pitch windings and skewed stator.		
✧ Digital solid-state.volts-per-hertz voltage Regulator with +1% no-load to full-load regulation.		✧ Self-ventilated and dripproof construction.

## Control Panel



The control module gives digital readouts of:

Generator voltage;  
Output frequency;  
Engine speed;  
Battery voltage;  
Engine hours run.

The **control panel** is an Digital Control Module suitable for a wide variety of single, diesel or gas, gen-set applications.

Monitoring an extensive number of engine parameters, the module will display warnings, shutdown and engine status information on the back-lit LCD screen and illuminated LEDs.

**The control module has indicators for failure information:**

Over speed/Low speed,  
Emergency stop  
Low oil pressure;  
High water temperature  
Failure to start  
Battery charger failure



Dimension:2500\*900\*1600mm  
Weight:1800kg

**Automatic shutdown occurs under:**

Low engine oil pressure;  
High engine water temperature;  
Over speed/Low speed;  
Failure to start after three attempts.

## Electrical system

- Maintenance-free and anti-explosion battery
- Standard breaker
- ABB breaker (optional)
- ATS (optional)
- Battery charger (optional)
- GMS monitoring (optional)

## Packing

- Wrapping film packaging
- Tray packaging
- plywood box packaging



Dimension:3600\*1600\*1900mm  
Weight:3600kg  
Fuel Tank:550L

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