



## Genset

Model	JHW5-15GF
Voltage	400/230V
Frequency&Speed	50HZ 1500RPM
Prime Power	16kW/20kVA
Standby Power	18kW/23kVA

- Engine: Weichai WP3.2D20E310
- Alternator: Stamford/Leroy Somer /Hengsheng
- Controller: DeepSea/SmartGen /DEIF/ComAp

## General Engine Data

转速Speed r/min	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
1500	/	18	20

发动机类型 Engine Type	柴油机 Diesel Engine
气缸/气门数量 N° of Cylinders / Valves	4 / 8
气缸分布型式 Cylinders arrangement	L 型 L-Type
缸径×行程 ( mm ) Bore x Stroke ( mm )	98×105
排量(L) Displacement(L)	3.17
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	自然吸气 Naturally aspirated
压缩比 Compression ratio	17.2
飞轮壳尺寸 Flywheel housing	SAE3
飞轮尺寸 Flywheel	11.5"
飞轮齿圈齿数 N° of teeth on flywheel ring gear	120
飞轮转动惯量 (kg/m²) Inertia of flywheel (kg/m²)	0.405
曲轴转动惯量 (kg/m²) Inertia of crankshaft (kg/m²)	0.052
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) Overall Dimensions without radiator (L x W x H) (mm)	880×670×865 ( 以外形图为准 The outer chart shall prevail )
发动机干重 (kg) Engine dry weight (kg)	280
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)	-25
包装尺寸(长×宽×高) Packing size (L x W x H) (mm)	1150×760×1200
运输重量 Packaging quality(kg)	400

发动机允许的最高使用环境温度 (°C) System designed for ambient temperature up to (°C)	42
进出水外部管路的最小内径 (mm) Min. inside diameter of coolant outlet pipe (mm)	进水 (inlet) 27, 出水 (outlet) 32
出水管报警温度 (°C) Coolant alarm temperature (°C)	103
节温器初开/全开温度 (°C) Thermostat opening temperature/full open temperature (°C)	72/84(高温循环 High temperature cycle)
冷却系统内最小保持压力 (kPa) Min. pressure in cooling system (kPa)	15
发动机本身冷却液容量 (L) Coolant capacity of the engine (L)	7.12(高温循环 High temperature cycle)
喷油泵进油口最大进油阻力 (kPa) Max. restriction at fuel pump inlet (kPa)	0.35-1
喷油泵最大回油阻力 (kPa) Max. fuel return restriction (kPa)	<150
燃油最高进油温度 (°C) Max. fuel inlet temperature (°C)	80
供油流量 (L/h) Fuel supply flow (kg/h)	4.4
输油泵最小压力 (kPa) Min. pressure of fuel pump (kPa)	35
燃油进油管最小直径 (mm) Min. diameter of inlet pipe (mm)	8
燃油回油管最小直径 (mm) Min. diameter of return pipe (mm)	8
油底壳机油最小/最大容量 (L) Oil capacity Low / High (L)	7.14/9
怠速时机油压力 (kPa) Oil pressure in normal condition idle speed (kPa)	≥90
在额定转速下的机油压力 (kPa) Oil pressure in normal condition at rated speed	300~500
机油压力低报警值(kPa) Lowest oil pressure alarm value (kPa)	60
机油压力低停机值(kPa) Lowest oil pressure shutdown value (kPa)	/
额定工况主油道内机油温度范围 The oil temperature range of the main oil passage under rated working condition ( °C )	≤130
机油流量 (L/min) Oil flow (L/min)	32
额定工况机油燃油消耗比 Oil fuel consumption ratio based on engine fuel consumption data under rated working condition	≤0.2%

## Alternator

Pole No.	4-Pole	
Exciter Type	Single bearing, Brushless, Self-excited	
Power factor	0.8	✧ NEMAMG1.JIANGHAO,and ANSI standards compliance for temperature rise and motor starting.
Voltage adjust range	≅ 5%	✧ Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
Insulation Grade	H	✧ Sustained short-circuit current enabling down stream circuit breakers to trip without collapsing the generator field.
Protection Grade	IP23/22	✧ Self-ventilated and dripproof construction.
Phase / wire	3 phase 4 wires	
✧ 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.		



## Control Panel



**The control module gives digital readouts of:**

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



Dimension:1600\*800\*1200mm

Weight:780kg



Dimension:2400\*1000\*1550mm

Weight:1380kg

Fuel Tank:240L

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

**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

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