



## Genset

Model	JHW-30GF
Voltage	480/277V
Frequency&Speed	60HZ 1800RPM
Prime Power	27kW/34kVA
Standby Power	30kW/37kVA

- Engine: Weichai WP2.3D41E201
- 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
1800		37	41

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 )	89×92
排量(L) Displacement(L)	2.3
燃油系统型式 Fuel System	机械泵 mechanical pump
进气形式 Aspiration	自然吸气 Naturally aspirated
压缩比 Compression ratio	17.5
飞轮壳尺寸 Flywheel housing	SAE4
飞轮尺寸 Flywheel	7.5"
飞轮齿圈齿数 N° of teeth on flywheel ring gear	104
飞轮转动惯量 (kg/m <sup>2</sup> ) Inertia of flywheel (kg/m <sup>2</sup> )	0.26
曲轴转动惯量 (kg/m <sup>2</sup> ) Inertia of crankshaft (kg/m <sup>2</sup> )	0.0292
排放阶段 Emission standard	无排放 Non
发动机尺寸(长×宽×高) Overall Dimensions without radiator (L x W x H) (mm)	854×620×678 ( 以外形图为准 The outer chart shall prevail )
发动机干重 (kg) Engine dry weight (kg)	235
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)	-5
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)	-15
包装尺寸(长×宽×高) Packing size (L x W x H) (mm)	1000×800×1000
运输重量 Packaging quality(kg)	260

油底壳机油最小/最大容量 (L) Oil capacity Low / High (L)	5.3/8
怠速时机油压力 (kPa) Oil pressure in normal condition idle speed (kPa)	≥100
在额定转速下的机油压力 (kPa) Oil pressure in normal condition at rated speed	200~500
机油压力低报警值(kPa) Lowest oil pressure alarm value (kPa)	80
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 )	85 ~ 115
机油流量 (L/min) Oil flow (L/min)	22
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	≤0.4%
喷油泵进油口最大进油阻力 (kPa) Max. restriction at fuel pump inlet (kPa)	70
喷油泵最大回油阻力 (kPa) Max. fuel return restriction (kPa)	/
燃油最高进油温度 (°C) Max. fuel inlet temperature (°C)	50
供油流量 (L/h) Fuel supply flow (kg/h)	/
输油泵最小压力 (kPa) Min. pressure of fuel pump (kPa)	200
燃油进油管最小直径 (mm) Min. diameter of inlet pipe (mm)	5.5
燃油回油管最小直径 (mm) Min. diameter of return pipe (mm)	5.5
电气系统电压 ( 负极接地 ) (V) Electrical system voltage (negative to ground) (V)	12
起动机功率(kW) Starter power (kW)	3
充电发电机额定电流 (A) Battery charger current (A)	35
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(mm²) Min. sectional area of wire (mm²)	50
加热格栅工作电压(V)/电流(A) Heat The Grille Voltage(V)/Current(A)	/
发动机噪声 ( 声功率级 ) (dB(A)) Diesel engine noise (Acoustic power level) (dB(A))	106.2

## 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:1800\*900\*1270mm

Weight:800kg



Dimension:3000\*1100\*1700mm

Weight:1700kg

Fuel Tank:280L

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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