



Genset

Model	JHW-450GF
Voltage	480/277V
Frequency&Speed	60HZ 1800RPM
Prime Power	NA/NA
Standby Power	459kW/574kVA

- Engine: Weichai WP13D510E311
- 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	/	450	510

发动机类型 Engine Type 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) 127×165

排量(L) Displacement(L) 12.54

燃油系统型式 Fuel System 电控高压共轨 Common-Rail

进气形式 Aspiration 增压中冷 Turbocharged and aftercooled

压缩比 Compression ratio 15: 1

飞轮壳尺寸 Flywheel housing SAE1

飞轮尺寸 Flywheel 14'

飞轮齿圈齿数 N° of teeth on flywheel ring gear 136

飞轮转动惯量 (kg/m²) Inertia of flywheel (kg/m²) 1.34

曲轴转动惯量 (kg/m²) Inertia of crankshaft (kg/m²) 0.064

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)
1556×817×1094 (以外形图为准 The outer chart shall prevail)

发动机干重 (kg) Engine dry weight (kg) 1000±50

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) -30

包装尺寸(长×宽×高) Packing size (L x W x H) (mm) 1910×1050×1300

运输重量 Packaging quality(kg) 1100

在涡轮增压器前允许的最大的进气温升(°C) Air intake temperature rise (°C)	15
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).....	≤7
额定工况下进气流量 (kg/h) Recommended air flow @ PRP (kg/h).....	2503
应急备用工况下进气流量 (kg/h) Recommended air flow @ ESP (kg/h).....	2594
推荐最小进气管直径(mm) Min. diameter of intake pipe (mm).....	100
油底壳机油最小/最大容量 (L) Oil capacity Low / High (L).....	30
怠速时机油压力 (kPa) Oil pressure in normal condition idle speed (kPa)	130~250
在额定转速下的机油压力 (kPa) Oil pressure in normal condition at rated speed.....	350~550
机油压力低报警值(kPa) Lowest oil pressure alarm value (kPa)	120
机油压力低停机值(kPa) Lowest oil pressure shutdown value (kPa).....	120
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)	85-105
机油流量 (L/min) Oil flow (L/min)	180
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%
喷油泵进油口最大进油阻力 (kPa) Max. restriction at fuel pump inlet (kPa)	65
喷油泵最大回油阻力 (kPa) Max. fuel return restriction (kPa)	22
燃油最高进油温度 (°C) Max. fuel inlet temperature (°C).....	70
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).....	700
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)	8.5
充电发电机额定电流 (A) Battery charger current (A).....	70

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	✧ Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
Voltage adjust range	≅ 5%	✧ Sustained short-circuit current enabling down stream circuit breakers to trip without collapsing the generator field.
Insulation Grade	H	✧ Self-ventilated and dripproof construction.
Protection Grade	IP23/22	
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:3260*1390*1850mm
Weight:3200kg



Dimension:4300*2000*2250mm
Weight:5400kg
Fuel Tank:850L

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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