



Genset

Model	JHW25-450GF
Voltage	400/230V
Frequency&Speed	50HZ 1500RPM
Prime Power	405kW/506kVA
Standby Power	441kW/551kVA

- Engine: Weichai WP13D490E310
- 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	/	450	490

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	机械泵 Mechanical Pump
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	16
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/m ²) Inertia of flywheel (kg/m ²)	1.34
曲轴转动惯量 (kg/m ²) Inertia of crankshaft (kg/m ²)	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) (mm) Overall Dimensions with radiator (L x W x H) (mm)	1752×972×1188 (以外形图为准 The outer chart shall prevail)
发动机净重 (kg) Engine weight (kg)	998
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)	1910×1050×1300
运输重量 Transport weight (kg)	1100

允许最大排气背压 (kPa) Max. exhaust back pressure (kPa)	12
最大的排气温度 (涡轮前) (°C) Max. exhaust temperature before turbocharger (°C)	740
最大的排气温度 (涡轮后) (°C) Max.exhaust temperature after turbocharger(°C).....	580
额定工况下排气流量 (kg/h) Exhaust flow @ PRP (kg/h)	1964
应急备用工况下排气流量 (kg/h) Exhaust flow @ ESP (kg/h)	2103
推荐排气管最小直径(mm) Min. diameter of exhaust pipe (mm)	100
涡轮增压器法兰处允许的最大弯矩(Nm) Max. bending moment of exhaust gas exit flange (Nm)	19
油底壳机油容量 (L)Oil capacity (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
机油低报警压力 (kPa) Lowest oil pressure alarm (kPa)	120
机油低停机压力 (kPa) Lowest oil pressure shutdown(kPa).....	80
机油最高温度(°C) Max. oil temperature (°C)	85~105
机油流量 (L/min) Oil flow (L/min)	190
机油燃油消耗比 Oil fuel consumption ratio based on engine fuel consumption data	≤0.2%
喷油泵进油口最大进油阻力 (kPa) Max. restriction at fuel pump inlet (kPa)	18
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 (kg/h) Fuel supply flow (kg/h).....	77.1~89
输油泵最小压力 (kPa) Min. pressure of fuel pump (kPa).....	65
燃油进油管最小直径 (mm) Min. diameter of inlet 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)	7.5

Alternator

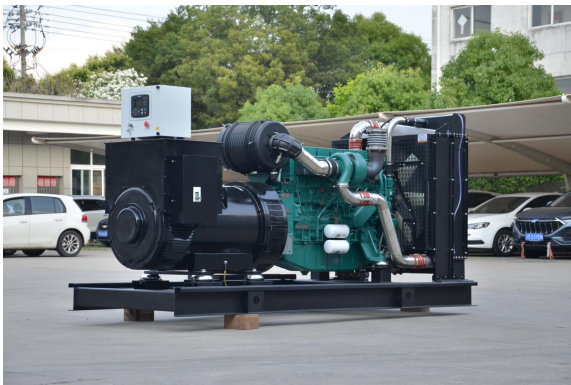
Pole No.	4-Pole	
Exciter Type	Single bearing, Brushless, Self-excited	✧ NEMAMG1.JIANGHAO,and ANSI standards compliance for temperature rise and motor starting.
Power factor	0.8	✧ Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
Voltage adjust range	≅ 5%	✧ Sustained 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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