



| Genset | |
|-----------------|--------------|
| Model | JHP5-24GF |
| Voltage | 230/400V |
| Frequency&Speed | 50HZ;1500RPM |
| Prime Power | 24kW/30kVA |
| Standby Power | 26kW/33kVA |

➤ **Engine: Perkins 1103A-33G**

➤ **Alternator: Stamford/Leroy Somer
/Hengsheng**

➤ **Controller: DeepSea/SmartGen
/DEIF/ComAp**

| Specification | | |
|----------------------------|--------------------------------------|---------------------|
| Number of cylinders | 3 vertical in-line | |
| Bore and stroke | 105 x 127 mm | 4.1 x 5 in |
| Displacement | 3.3 litres | 201 in ³ |
| Aspiration | Naturally aspirated | |
| Cycle | 4 stroke | |
| Combustion system | Direct injection | |
| Compression ratio | 19.25:1 | |
| Rotation | Anti-clockwise, viewed from flywheel | |
| Total lubricating capacity | 8.3 litres | 2.2 US gal |
| Cooling system | Water-cooled | |
| Total coolant capacity | 10.2 litres | 2.7 US gal |

Features and benefits

Compact, efficient power

- 1100 Series is the result of an intensive period of customer research that has guided the development of the range
- The new 3.3 litre cylinder block ensures bore roundness is maintained under the pressures of operation. It also ensures combustion and mechanical noise is lowered
- A new cylinder head has re-established Perkins mastery of air control

Quality by design

- Product design and Class A manufacturing improvements enhance product reliability while maintaining Perkins legendary reputation for durability

Cost effective power

- Compact size and low noise
- Lower fuel consumption and oil use
- 500 hour service intervals
- Warranties and Service Contracts

We provide one-year warranties for constant speed engines and two-year warranties for variable speed models, as standard. These are supported by multilevel Extended Service Contracts that can be bought additionally
Discover more: www.perkins.esc

Product support

- Perkins actively pursues product support excellence by ensuring our distribution network invest in their territory – strengthening relationships and providing more value to you, our customer
- Through an experienced global network of distributors and dealers, fully trained engine experts deliver total service support around the clock, 365 days a year. They have a comprehensive suite of web based tools at their fingertips covering technical information, parts identification and ordering systems, all dedicated to maximising the productivity of your engine
- Throughout the entire life of a Perkins engine, we provide access to genuine OE specification parts and service. We give 100% reassurance that you receive the very best in terms of quality for lowest possible cost .. wherever your Perkins powered machine is operating in the world
- To find your local distributor: www.perkins.com/distributor

1100 Series 1103A-33G Di

– Elec

30.4 kWm / 40.8 hp @ 1500 rpm

| Speed rpm | Type of operation | Typical generator output (Net) | | Engine power | | | |
|-----------|-------------------|--------------------------------|------|--------------|------|------|------|
| | | | | Gross | | Net | |
| | | kVA | kWe | kWm | hp | kWm | hp |
| 1500 | Prime Power | 30.0 | 24.0 | 28.2 | 37.8 | 27.7 | 37.1 |
| | Standby (maximum) | 33.0 | 26.4 | 31.0 | 41.6 | 30.4 | 40.8 |

The above ratings represent the engine performance capabilities to conditions specified in ISO 8528/1, ISO 3046/1:1986, BS5514/1. Derating may be required for conditions outside these; consult Perkins Engines Company Limited.

Generator powers are typical and are based on an average alternator efficiency and a power factor (cos. θ) of 0.8. Fuel specification: BS 2869: Part 2 1998 Class A2 or DIN EN 590. Lubricating oil: 15W40 to API CG4.

Rating definitions

Prime power: Variable load. Unlimited hours usage with an average load factor of 90% of the published prime power over each 24 hour period. A 10% overload is available for 1 hour in every 12 hours of operation. Standby power: Variable load. Limited to 500 hours annual usage, up to 300 hours of which may be continuous running. No overload is permitted.

| Percent of prime power | Fuel consumption litres/hour temperate/tropical at 1500 rpm | |
|------------------------|---|------|
| | UK g/hr | l/hr |
| Standby (maximum) | 1.78 | 8.1 |
| Prime power | 1.58 | 7.2 |
| 75% | 1.23 | 5.61 |
| 50% | 0.89 | 4.06 |
| 25% | 0.58 | 2.65 |

Technical information

Air inlet

- Mounted air filter

Fuel system

- Rotary type pump
- Next generation fuel filter

Lubrication system

- Wet sump with filler and dipstick
- Spin-on oil filter

Electrical equipment

- 12 volt starter motor and 12 volt 65 amp alternator with DC output
- 12 volt shutdown solenoid energised to run

Flywheel and housing

- High inertia flywheel to SAE J620 standard
- SAE 3 flywheel housing

Mountings

- Front engine mounting bracket

Literature

- Operation and Maintenance Manual (OMM)

Alternator

| | |
|----------------------|---|
| Pole No. | 4-Pole |
| Exciter Type | Single bearing, Brushless, Self-excited |
| Power factor | 0.8 |
| Voltage adjust range | $\pm 5\%$ |
| Insulation Grade | H |
| Protection Grade | IP23/22 |
| Phase / wires | 3 phase 4 wires |

- 2 NEMAMG1.JIANGHAO, and ANSI standards compliance for temperature rise and motor starting.
- 2 Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- 2 Sustained short-circuit current enabling down stream circuit breakers to trip without collapsing the generator field.
- 2 Self-ventilated and dripproof construction.
- 2 Superior voltage waveform from two-thirds pitch windings and skewed stator.
- 2 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.

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:1470*940*1100mm
Weight:800kg



Dimension:2400*1000*1550mm
Weight:1400kg
Fuel Tank Capacity:240L

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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