



Genset

| | |
|-----------------|--------------|
| Model | JHP-10GF |
| Voltage | 277/480V |
| Frequency&Speed | 60HZ;1800RPM |
| Prime Power | 9kW/11kVA |
| Standby Power | 12kW/15kVA |

400 Series 403F-11G Electropak

9.8 kWm / 13.1 hp @ 1800 rpm

Building on our proven reputation within the power generation industry, the newly introduced Perkins® 400F range of Electropak engines is an evolution of the highly successful 400D range.

The 400F range of Electropaks has been designed to fully comply with the latest EPA Tier 4 Final emissions legislation in North America.

For customers, these Electropaks provide compact power from a robust family of 3 and 4 cylinder diesel engines, optimised to provide economic, durable and quiet operation demanded by the power generation industry.



Emissions statement

Constant Speed engines for use in Industrial, IOPU and Electropak applications: Certified against the requirements of US EPA Tier 4 Final (40 CFR Part 60 for stationary applications and 40 CFR Part 1039 for mobile applications). Less than 19 kW EC certification not required.

| Specification | | |
|----------------------------|------------------------------|-------------|
| Number of cylinders | 3 vertical in-line | |
| Bore and stroke | 77 x 81 mm | 3 x 3.2 in |
| Displacement | 1.131 litres | 69 cubic in |
| Aspiration | Naturally aspirated | |
| Cycle | 4 stroke | |
| Combustion system | Indirect injection | |
| Compression ratio | 23:1 | |
| Rotation | Clockwise, viewed from front | |
| Total lubricating capacity | 4.4 litres | 1.1 US gal |
| Cooling system | Liquid | |
| Total coolant capacity | 5.2 litres (with radiator) | 1.4 US gal |

| Engine package weights and dimensions | | |
|---------------------------------------|----------|----------|
| Length | 776 mm | 30.5 in |
| Width (including mounting brackets) | 449 mm | 17.6 in |
| Height | 700 mm | 27.5 in |
| Weight (dry) | 129.2 kg | 284.8 lb |

➤ **Engine: Perkins 403F-11G**

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

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

Features and benefits

Ultra compact power

- Up to 9.8 kW (13.1 hp) from an engine envelope of 0.24 cubic metres (8.48 cubic ft)
- Easy installation

Clean and quiet

- Noise levels have been kept to a minimum
- Subjective harshness has been carefully controlled making the engine sound even quieter

Durable and reliable

- Product design and process improvements enhance both engine reliability and durability
- The introduction of a simple electronic governor system gives customers the flexibility of electronic machine integration if needed

Low operating costs

- Aligned oil and filter changes at 500 hours, dependent on load factor
- Engine durability and reliability and ease of installation combine to drive down the cost of ownership

Product support

- With highly trained Perkins distributors in thousands of communities in over 180 countries, you are never far away from expert product knowledge, genuine parts and a range of advanced diagnostic technology for keeping your engine in peak condition
- Warranties and Service Contracts
We provide one-year warranties for constant speed engines. These are supported by multi-level Extended Service Contracts (ESC) that can be bought additionally through your local Perkins Distributor
To find your local distributor: www.perkins.com/distributor

| Speed rpm | Type of operation | Typical generator output (Net) | | Engine power | | | |
|-----------|-------------------|--------------------------------|-----|--------------|------|-----|------|
| | | | | Gross | | Net | |
| | | kVA | kWe | kWm | hp | kWm | hp |
| 1800 | Prime power | 11.2 | 9.0 | 9.8 | 13.1 | 9.6 | 12.9 |
| | Standby power | 12.4 | 9.9 | 9.8 | 13.1 | 9.6 | 12.9 |

Power output for a run-in engine after 60 hours

The above ratings represent the engine performance capabilities to conditions specified in ISO 3046/1:2002 standard reference conditions. Derating may be required for conditions outside these; consult Perkins Engines Company Limited.

Generator powers are typical and are based on typical alternator efficiencies and a power factor (cos θ) of 0.8. Fuel specification: EPA Part 1065.703 ULSD or EU 2004/26/EC Stage 3B/4.

Rating definitions: Prime power: Power available at variable load in lieu of a main power network. Zero overload capacity. Standby (maximum): Power available at variable load in the event of a main power network failure. No overload is permitted.

| Percent of prime power | Fuel consumption at 1800 rpm g/kWh | Fuel consumption at 1800 rpm l/hr |
|------------------------|------------------------------------|-----------------------------------|
| 100% | 255 | 2.8 |

Alternator

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

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

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:1100*650*1050mm
Weight:300kg

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



Dimension:2200*1000*1550mm
Weight:850kg
Fuel Tank Capacity:180L

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