



- Engine: Perkins 1104D-E44TAG2
- Alternator: Stamford/Leroy Somer /Hengsheng
- Controller: DeepSea/SmartGen /DEIF/ComAp

Genset

| | |
|-----------------|--------------|
| Model | JHPE5-80GF |
| Voltage | 230/400V |
| Frequency&Speed | 50HZ;1500RPM |
| Prime Power | 80kW/100kVA |
| Standby Power | 88kW/110kVA |

The Perkins® 1104D-E44TAG Electropak's are the latest addition to 1100 Series Electric Power line-up. Offering improved power density from a compact package, these Electropak's build on Perkins reputation within the power generation industry.

These ultra clean engines are assembled on a new high technology production line. Frequent computerised checks during the production process ensure high build quality is maintained throughout.

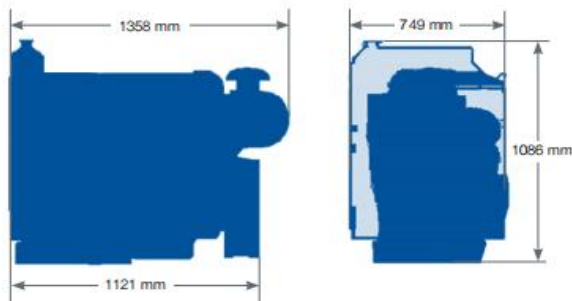
Hitting the key power nodes required by the market, the 1104D Electropak product line-up consists of three models offering a power solution for both prime and standby applications, in 50 Hz territories.



Emissions

Certified against the requirements of EU Stage IIIA legislation for non-road mobile machinery, powered by constant speed engines (EU 97/68/EC Stage IIIA).

| Specification | | |
|----------------------------|--------------------------------------|--------------|
| Number of cylinders | 4 in-line | |
| Bore and stroke | 105 x 127 mm | 4.1 x 5.0 in |
| Displacement | 4.4 litres | 269 in³ |
| Aspiration | Turbocharged air-to-air chargecooled | |
| Cycle | 4 stroke | |
| Combustion system | Direct injection | |
| Compression ratio | 16.2:1 | |
| Rotation | Anti-clockwise, viewed on flywheel | |
| Total lubricating capacity | 8 litres | 2.1 US gal |
| Cooling system | Water-cooled | |
| Total coolant capacity | 17 litres | 4.5 US gal |



| Engine package weights and dimensions | | |
|---------------------------------------|---------|---------|
| Length | 1358 mm | 53.4 in |
| Width | 749 mm | 29.5 in |
| Height | 1086 mm | 42.7 in |
| Weight (dry) | 465 kg | 1025 lb |

| Speed rpm | Type of operation | Typical generator output (Net) | | Engine power | | | |
|--------------|----------------------|-----------------------------------|------|--------------|-----|-------|-------|
| | | | | Gross | | Net | |
| | | kVA | kWe | kWm | hp | kWm | hp |
| 1500 | Prime power | 101.3 | 81 | 95.5 | 128 | 92.1 | 123.5 |
| | Standby (maximum) | 111.7 | 89.4 | 105 | 141 | 101.6 | 136 |

The above ratings represent the engine performance capabilities to conditions specified in ISO 8528/5. Derating may be required for conditions outside the test conditions; consult Perkins Engines Company Limited.

Generator powers are typical and are based on typical alternator efficiencies and a power factor. Fuel specification: Consult Perkins Engines Company Limited (various fuel specifications are available). Lubricating oil: multi-grade oil conforming to API-CH4/CI4 must be used.

Rating definitions

Prime power: Power available at variable load in lieu of a main power network. Overload of 10% is permitted for 1 hour in every 12 hours' operation.
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 1500 rpm l/hr |
|------------------------|--------------------------------------|
| 110% | 26.5 |
| 100% | 24.5 |
| 75% | 19.8 |
| 50% | 13.2 |

Technical information

Air inlet

- Mounted air filter and turbocharger

Cooling system

- 22 inch belt-driven pusher fan and guards
- Radiator (incorporating air-to-air charge cooler)
- Water pump

Electric system

- 12 volt starter motor
- 12 volt, 65 amp alternator with DC output

Flywheel and housing

- High inertia flywheel to SAE J620 Size 10/11
- SAE3 flywheel housing

Fuel system

- Electronic governing (conforms to Class G3 ISO 8528-5)
- Fuel filter

Literature

- Users Handbook

Lubrication system

- Wet cast iron sump with filler and dipstick
- Oil filter

Start aids

- Glow plugs

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 |

- ✧ 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 dripproof construction.
- ✧ 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.

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:1950*800*1200mm
Weight:1000kg



Dimension:3000*1100*1700mm
Weight:1800kg
Fuel Tank Capacity:280L

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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