



Genset

| | |
|-----------------|--------------|
| Model | JHPE-160GF |
| Voltage | 277/480V |
| Frequency&Speed | 60HZ;1800RPM |
| Prime Power | 160kW/200kVA |
| Standby Power | 188kW/236kVA |

Building upon Perkins proven reputation within the power generation industry, the 1100 Series range of Electropak engines now fit even closer to customers needs.

In the world of power generation success is only gained by providing more for less. With the 1106D-E70TAG4 Perkins has engineered even higher levels of reliability, yet lowered the cost of ownership.

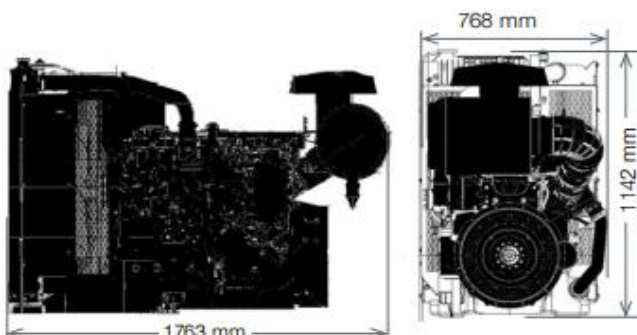
1100A units are designed for territories that do not require compliance to EPA or EU emissions legislation. These engines are assembled around optimal, efficient manufacturing processes with state-of-the-art technology. They are built to provide the exact power solution for customers who sell their applications into lesser regulated countries.

Focusing on our common platform theme, changes to engine envelope dimensions and connection points have been kept to a minimum.

- **Engine: Perkins 1106D-E70TAG4**
- **Alternator: Stamford/Leroy Somer**
/Hengsheng
- **Controller: DeepSea/SmartGen**
/DEIF/ComAp



| Specification | | |
|----------------------------|------------------------------------|---------------------|
| Number of cylinders | 6 vertical in-line | |
| Bore and stroke | 105 x 135 mm | 4.13 x 5.31 in |
| Displacement | 7.01 litres | 428 in ³ |
| Aspiration | Turbocharged aftercooled | |
| Cycle | 4 stroke | |
| Combustion system | Direct injection | |
| Compression ratio | 16.8:1 | |
| Rotation | Anti-clockwise, viewed on flywheel | |
| Total lubricating capacity | 16.5 litres | 4.36 US gal |
| Cooling system | Liquid | |
| Total coolant capacity | 21 litres | 5.5 US gal |



| Engine package weights and dimensions | | |
|---------------------------------------|---------|---------|
| Length with air cleaner | 1763 mm | 69.4 in |
| Width | 768 mm | 30.2 in |
| Height | 1142 mm | 45 in |
| Weight (dry) | 788 kg | 1737 lb |

Features and benefits

Dependable power

- The Perkins® 1106D-E70TAG4 delivers up to 200 kVA standby at 50 Hz and 175 kWe at 60 Hz, providing greater productivity through an improved power to weight ratio
 - This world-class power density has been achieved in a 7 litre engine, using an electronic fuel injection system; making this engine robust for all markets, with the ability to cope with the variation of fuel qualities around the world
- The 1106D has been designed for excellent load acceptance to ensure your facility is powered quickly at all conditions

Low operating costs

- Service intervals are set at 500 hours as standard assuming approved fuels and lubrication oils are used
- 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
- Low usage warranty package is also available

World class product support

- 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 finger tips, covering technical information, parts identification and ordering systems, all dedicated to maximising the productivity of your engine
- Perkins actively pursues product support excellence by insisting our distribution network invest in their territory to provide you with a consistent quality of support across the globe
- Throughout the entire life of a Perkins engine, we provide access to genuine OE specification parts giving 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

| Speed rpm | Type of operation | Typical generator output (Net) | | Engine power | | | |
|-----------|-------------------|--------------------------------|-----|--------------|-----|-----|-----|
| | | | | Gross | | Net | |
| | | kVA | kWe | kWm | hp | kWm | hp |
| 1800 | Prime power | 200 | 160 | 185 | 248 | 176 | 235 |
| | Standby (maximum) | 219 | 175 | 203 | 272 | 194 | 260 |

| Percent of prime power | Fuel consumption at 1800 rpm g/kWh | Fuel consumption at 1800 rpm l/hr |
|------------------------|------------------------------------|-----------------------------------|
| 110% | 208.1 | 52.2 |
| Prime power | 211.9 | 48.3 |
| 75% | 227.1 | 38.8 |
| 50% | 233.3 | 26.6 |
| 25% | 251.4 | 14.3 |

Alternator

| | |
|----------------------|--|
| Pole No. | 4-Pole |
| Exciter Type | Single bearing, Brushless, Self-excited |
| Power factor | 0.8 |
| Voltage adjust range | ± 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 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:2300*950*1300mm
Weight:1500kg



Dimension:3300*1300*1800mm
Weight:2550kg
Fuel Tank Capacity:360L

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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