



## Genset

Model	JHPE-180GF
Voltage	277/480V
Frequency&Speed	60HZ;1800RPM
Prime Power	182kW/228kVA
Standby Power	212kW/264kVA

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-E70TAG5 Perkins has engineered even higher levels of reliability, yet lowered the cost of ownership.

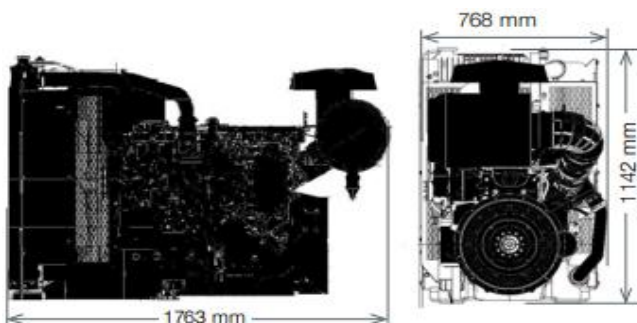
1100A units are designed for territories that do not require compliance to EPA or EU emissions legislation. These engines are assembled around optimal, efficient manufacturing processes with state-of-the-art technology. They are built to provide the exact power solution for customers who sell their applications 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-E70TAG5**
- **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 <sup>3</sup>
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-E70TAG5 delivers up to 200 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](http://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](http://www.perkins.com/distributor)

Speed rpm	Type of operation	Typical generator output (Net)		Engine power			
				Gross		Net	
		kVA	kWe	kWm	hp	kWm	hp
1800	Standby (maximum)	250	200	228	306	218	292

Percent of prime power	Fuel consumption at 1800 rpm g/kWh	Fuel consumption at 1800 rpm l/hr
110%	210.2	59.1
Prime power	214.9	54.4
75%	229.1	43.5
50%	233.4	29.5
25%	253.0	16.0

## 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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