



Genset

Model	JHPE5-160GF
Voltage	230/400V
Frequency&Speed	50HZ;1500RPM
Prime Power	160kW/200kVA
Standby Power	176kW/220kVA

Emissions

EU Stage IIIA.

➤ **Engine: Perkins 1206D-E70TTAG1**

➤ **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 5.3 in
Displacement	7.01 litres	427.7 in ³
Aspiration	Series turbocharged aftercooled	
Cycle	4 stroke DI	
Combustion system	Direct injection	
Compression ratio	15.8:1	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	13-16 litres	3.4-4.2 US gal
Cooling system	Liquid	
Total coolant capacity	25 litres	6.6 US gal

Features and benefits

Dependable power

- World-class manufacturing capability and processes coupled with proven core engine designs assure reliability, quiet operation, and many hours of productive life
- Series turbocharging with smart wastegate available on all ratings
- A high power density product that combine dependable power and high efficiency at the same time. Driving lower cost of ownership along with better performance

To find more, visit: www.perkins.com/powerdensity

Flexibility

- Tropical radiator is supplied as standard

Lifetime of low cost

- Fuel consumption optimized prime power and continuous running applications. No additional fluids or additives are required which lowers operating costs
- Hydraulic tappets, multi-vee belts and 500-hour oil change intervals enable low-cost maintenance
- Perkins Platinum Protection – there is also an option to buy a Perkins Platinum Protection policy to cover you beyond the standard warranty period.

Discover more: https://www.perkins.com/en_GB/aftermarket/perkins-platinum-protection.html

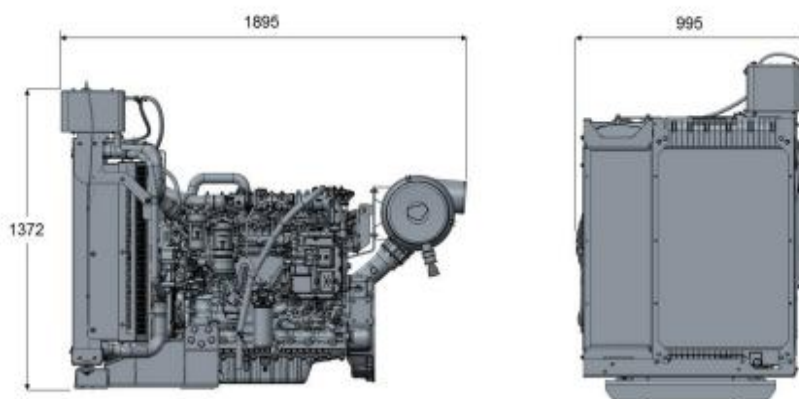
Local support, global coverage

- Perkins recognise that the customer relationship is important to machine manufacturers and we can offer a range of flexible solutions to help provide appropriate support, either to the OEM's network or directly to the machine customer
- Perkins information systems enable our distributors to quickly diagnose engine faults and identify the right parts. The Perkins logistics operation is able to dispatch more than 45,000 different parts from stock, reaching the customer within 24 hours
- To find your local distributor: www.perkins.com/distributor

Speed rpm	Type of operation	Generator output		Engine power			
				Gross		Net	
		kVA	kWe	kWm	hp	kWm	hp
1500	Prime power	200	160	185.8	249.1	176.8	236.9
	Standby power	225	180	204.2	273.7	195.2	261.7
1800	Prime power	225	180	216.6	290.5	201.6	270.4
	Standby power	250	200	238.6	319.9	223.6	299.8

Power rating %	185.8 kW/1500 rpm Prime		216.6 kW/1800 rpm Prime	
	g/kWh	litres/hr	g/kWh	litres/hr
25	237.2	13.1	257	16.5
50	212.4	23.5	216.4	27.8
75	208.9	34.7	209.3	40.4
100	206.9	45.8	211.7	54.5
110	209.7	51	215.2	61.1

Dimensions



Engine package weights and dimensions		
Length (including air filter)	1895 mm	74.6 in
Width	995 mm	39.2 in
Height	1372 mm	54.0 in
Weight (dry)	807.7 kg	1780.7 lb

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:2800*1000*1800mm
Weight:1800kg

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:4000*1700*2000mm
Weight:3700kg
Fuel Tank Capacity:680L

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