



➤ **Engine: Perkins 1206D-E70TTAG3**

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

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

Genset	
Model	JHPE-180GF
Voltage	277/480V
Frequency&Speed	60HZ;1800RPM
Prime Power	180kW/225kVA
Standby Power	200kW/250kVA

Perkins is pleased to announce the natural expansion of the 1200 Series to include a new addition to the Electropak range.

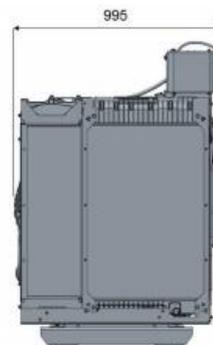
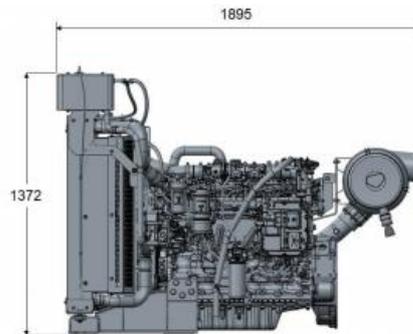
The whole engine has been built around the demands of our customers and as such offers a great package with a simple integration design.

Perkins have developed a reputation for designing and building reliable and durable engines suitable for the most demanding applications.



Emissions
EU Stage IIIA

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



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

Speed rpm	Type of operation	Generator output		Engine power			
				Gross		Net	
		kVA	kWe	kWm	hp	kWm	hp
1500	Prime power	250	200	226.2	303.2	217.2	291.2
	Standby power	275	220	248.6	333.2	238.2	391.4
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 %	226.2 kW/1500 rpm Prime		216.6 kW/1800 rpm Prime	
	g/kWh	litres/hr	g/kWh	litres/hr
25	228.8	15.4	257	16.5
50	209.6	28.1	216.4	27.8
75	206.1	41.5	209.3	40.4
100	212.3	56.9	211.7	54.5
110	219.6	64.5	215.2	61.1

Technical information

Air inlet

- Standard air cleaners

Control system

- Full electronic control system
- All connectors and wiring looms waterproof and designed to withstand harsh environments
- Flexible and configurable software features and well supported SAE J1939 CAN bus enables highly integrated machines

Cooling system

- Tropical radiator as standard ensures optimal cooling performances all year round in any state
- 50:50 water glycol mix

Flywheels and flywheel housing

- SAE2 flywheel housing

Fuel and fuel system

- Electronic high pressure common rail
- Innovative filter design – ensures maximum protection of the engine
- Flat bottomed, isolated, aluminium sump

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 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:2800*1000*1800mm
Weight:2000kg

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:3900kg
Fuel Tank Capacity:680L

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