



➤ **Engine: Perkins 2206D-E13TAG3**

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

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

Genset	
Model	JHPE5-320GF
Voltage	230/400V
Frequency&Speed	50HZ;1500RPM
Prime Power	320kW/400kVA
Standby Power	360kW/450kVA

## China III, India CPCBII and EU Stage IIIA

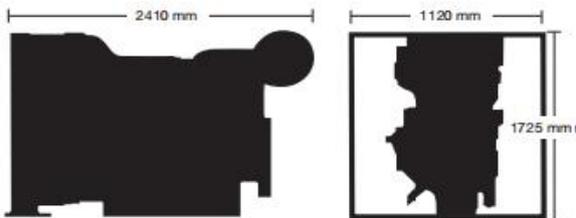
The 2200 range has been developed using the latest engineering techniques and builds on the strengths of the already very successful 2000 Series family. Developed from a proven heavy-duty industrial base, these products offer the superior performance and reliability required to meet today's uncompromising demands within the power generation industry.

The 2206D-E13TAG is a 6 cylinder, turbocharged air-to-air charge cooled diesel engine. Its premium features provide exceptional power to weight ratio resulting in exceptional fuel consumption.

The overall performance and reliability characteristics make this the prime choice for today's power generation industry.



Specification		
Number of cylinders	6 vertical in-line	
Bore and stroke	130 x 157 mm	5.1 x 6.1 in
Displacement	12.5 litres	763 in <sup>3</sup>
Aspiration	Turbocharged and air-to-air chargecooled	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	16.3:1	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	40 litres	10.5 US gal
Cooling system	Water-cooled	
Total coolant capacity	51.4 litres	13.6 US gal



Engine package weights and dimensions		
Length	2410 mm	95 in
Width	1120 mm	44 in
Height	1725 mm	68 in
Weight (dry)	1478 kg	3258 lb

349 kWm at 1500 rpm  
EU Stage IIIA, India CPCBII, China III

Speed rpm	Type of operation	Typical generator output (Net)		Engine power			
				Gross		Net	
		kVA	kWe	kWm	hp	kWm	hp
1500	Prime power	400	320	367	492	349	468

The above ratings represent the engine performance capabilities to conditions specified in ISO 8528/1, ISO 3046/1:1986, BS 5514. Derating may be required for conditions outside these; consult Perkins Engines Company Limited.

Generator powers are typical and are based on an average alternator efficiency and a power factor (cos.  $\theta$ ) of 0.8. Fuel specification: BS 2869: Part 2 1998 Class A2 or ASTM D975 D2. Lubricating oil: 15W40 to API CG4.

**Rating definitions**

Prime power: Power available at variable load with a load factor not exceeding 80% of the prime power rating. Overload of 10% is permitted for 1 hour in every 12 hours operation.

Percent of prime power	Fuel consumption at 1500 rpm g/kWh	Fuel consumption at 1500 rpm l/hr
Prime power	206	89
75%	219	71
50%	229	49

**Fuel system**

- Mechanically actuated electronically controlled unit fuel injectors with full authority electronic control
- Governing to ISO 8528-5 class G2 with isochronous capability
- Replaceable 'Ecoplus' fuel filter elements with primary filter/water separator
- Fuel cooler

**Lubrication system**

- Wet sump with filler and dipstick
- Full-flow replaceable 'Ecoplus' filter
- Oil cooler integral with filter header

**Cooling system**

- Gear-driven circulating pump
- Mounted belt-driven pusher fan
- Radiator incorporating air-to-air charge cooler, (supplied loose)
- System designed for ambients up to 50°C

**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
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.



Dimension:3650\*1100\*2000mm  
Weight:3300kg



Dimension:4700\*2100\*2400mm  
Weight:6200kg  
Fuel Tank Capacity:1000L

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

**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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