



## Genset

Model	JHP5-640GF
Voltage	230/400V
Frequency&Speed	50HZ;1500RPM
Prime Power	640kW/800kVA
Standby Power	718kW/900kVA

The Perkins® 4000 Series family of 6, 8, 12 and 16 cylinder diesel engines was designed in advance of today's uncompromising demands within the power generation industry and includes superior performance and reliability.

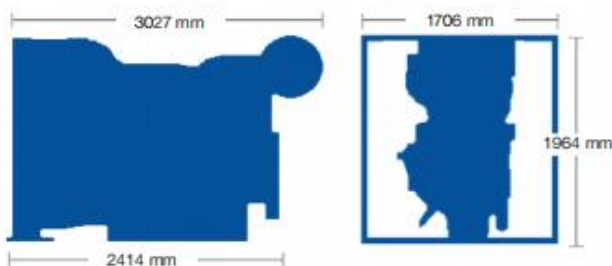
The 4006-23TAG3A is a turbocharged and air-to-air charge cooled, 6 cylinder diesel engine offered with either temperate or tropical cooling. Its premium features and design provide economic and durable operation as well as an exceptional power to weight ratio, excellent load acceptance and improved gaseous emissions, plus the overall performance and reliability characteristics essential to the power generation market.



- **Engine: Perkins 4006-23TAG3A**
- **Alternator: Stamford/Leroy Somer**  
**/Hengsheng**
- **Controller: DeepSea/SmartGen**  
**/DEIF/ComAp**

## Specification

Number of cylinders	6 vertical in-line	
Bore and stroke	160 x 190 mm	6.3 x 7.5 in
Displacement	22.921 litres	1397 in <sup>3</sup>
Aspiration	Turbocharged and air-to-air charge cooled	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	13.6:1	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	113.4 litres	29.5 US gal
Cooling system	Water-cooled	
Total coolant capacity	105 litres	27.7 US gal



## Engine package weights and dimensions

Length	3027 mm	119 in
Width	1706 mm	67 in
Height	1964 mm	77 in
Weight (dry)	2524 kg	5564 lb

Speed rpm	Type of operation	Typical generator output (Net)		Engine power			
				Gross		Net	
		kVA	kWe	kWm	hp	kWm	hp
1500	Continuous baseload	640	512	566	759	540	724
	Prime power	800	640	705	945	679	911
	Standby (maximum)	900	720	786	1054	760	1019

The above ratings represent the engine performance capabilities to conditions specified in ISO 8528/1, ISO 3046/1:1986, BS 5514/1. 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

**Baseload power:** Power available for continuous full load operation. No overload is permitted on baseload power. **Prime power:** Power available at variable load with a load factor not exceeding 80% of the prime power rating. There is no overload permitted on baseload power. **Standby power:** Power available in the event of a main power network failure up to a maximum of 500 hours per year of which up to 300 hours may be run continuously. Load factor may be up to 100% of standby power. No overload is permitted.

Percent of prime power	Fuel consumption at 1500 rpm g/kWh	Fuel consumption at 1500 rpm l/hr
Standby power	212	194
Prime power	210	172
Baseload power	208	137
75%	210	130
50%	213	90

#### Lubrication system

- Wet full aluminium sump with filler and dipstick
- Full flow spin-on oil filters

#### Cooling system

- Twin thermostats, water pump
- System designed for ambient temperatures up to 50°C
- Radiator supplied loose incorporating air-to-air charge cooler

#### Electrical equipment

- 24V starter motor, 24V alternator with integral regulator and DC output
- Turbine inlet temperature protection
- High coolant temperature protection switch
- Low oil pressure protection switch

#### Flywheel and housing

- Flywheel to SAE J620 size 18
- SAE 'O' flywheel housing

#### Optional equipment

- 4 meter wiring harness
- Secondary electric start
- Immersion heater
- Exhaust counter flanges
- Single exhaust outlet pipe
- Temperate radiator kit

## Alternator

Pole No.	4-Pole
Exciter Type	Single bearing, Brushless, Self-excited
Power factor	0.8
Voltage adjust range	$\pm 5\%$
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:**

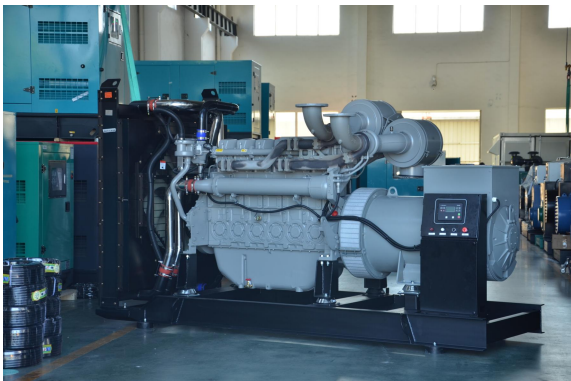
Generator voltage;  
Output frequency;  
Engine speed;  
Battery voltage;  
Engine hours run.

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:4600\*1800\*2300mm  
Weight:6200kg

**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:5800\*2300\*2500mm  
Weight:10100kg  
Fuel Tank Capacity:1200L

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