702 kWm @ 1800 rpm net standby power

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 4006-23TAG2A 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.



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		

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#### Features and benefits

## Dependable power

- Individual 4 valve cylinder heads giving optimised gas flows
- Unit fuel injectors ensure ultra fine fuel atomisation and hence controlled rapid combustion
- Commonality of components with other engines in the 4000 Series family for reduced stocking levels
- Capable emissions of 1/2 TA Luft (1986)

#### Low operating costs

- Oil change service intervals are set at 500 hours as standard
- Designed to provide low cost of ownership, simple maintenance and reduced downtime
- Class leading warranty
  - Prime power 12 months unlimited hours. For engines that operate less than 6,000 hours the warranty is available for two years or until the application reaches 6,000 hours (whichever is sooner).
  - Standby power three years or 1,500 hours (whichever is sooner).
  - See Perkins Warranty Policy for further details
- Perkins Platinum Protection comprehensive cover from as little as 5 percent\* of the cost of your engine
   Talk to your local distributor or visit www.perkins.com/platinum protection for more details

## World class product support

- Our 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 disposal, 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 customers with a consistent quality of support across the globe
- Throughout the entire life of a Perkins engine, we provide access to genuine 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



<sup>\*</sup>Terms and conditions apply

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#### Technical information

## Air inlet system

Mounted air filter and turbocharger

# Fuel system

- Digital governing to ISO 8528-5 Class G2 with isochronous capability
- Direct fuel injection system with fuel lift pump
- Full flow spin-on filters

#### 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

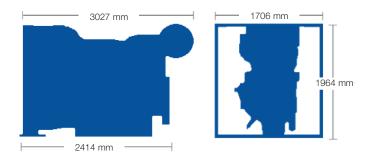
- Flywheel to SAE J620 size 18
- SAE '0' flywheel housing

# Optional equipment

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



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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			

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0 1	Type of operation	Typical generator output (Net)		Engine power			
Speed rpm				Gross		Net	
		kVA	kWe	kWm	hp	kWm	hp
1800	Continuous baseload	600	480	554	743	511	685
	Prime power	750	600	684	917	638	855
	Standby (maximum)	825	660	759	1018	702	941

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 1800 rpm g/kWh	Fuel consumption at 1800 rpm l/hr		
Standby power	226	199		
Prime power	222	177		
Baseload power	210	136		
75%	212	129		
50%	212	90		