

# 1000 Series 6TG2AM Marine Auxiliary Engine

110.0 kW (147.5 hp) gross prime power @ 1800 rpm

Based on Perkins universally acclaimed 1000 Series and renowned throughout the power generation industry for its superior performance and reliability. The Perkins 6TG2AM is a turbocharged, six cylinder, six litre engine.

Operator and environmentally friendly with low noise, rapid startability and low emissions. This is achieved with the 'QUADRAM' combustion system and fully closed breather system.

Competitive engine and parts pricing, extended service intervals and exceptionally low fuel consumption make the 6TG2AM a cost effective choice with significant owner savings over alternative engines.

Our commitment to quality is your guarantee of reliability.



Specification		
Number of cylinders	6 vertical in-line	
Bore and stroke	100 x 127 mm	3.9 x 5 in
Displacement	5.99 litres	365.5 in <sup>3</sup>
Aspiration	Turbocharged	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	16:1	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	15 litres	4 US gal
Cooling system	Water cooled	
Total coolant capacity	24 litres	6.3 US gal

[www.Perkins.com/Marine](http://www.Perkins.com/Marine)

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THE HEART OF EVERY GREAT MACHINE

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## Features and benefits

### Powered by your needs

- Perkins engines can be tailored specifically for you.

These engines offer a choice of standard build configurations to match the needs of customers for a diverse range of applications

### Lower operating costs

- Service intervals 250 hours as standard and Perkins provides comprehensive warranty cover for two years, with three years on major engine components

### Economic power

- One side servicing and translucent header tank for reduced service time and cost. Unique Quadram combustion system enables high output with lower fuel consumption and noise. Extended service intervals, including 400 hour (or 12 months) oil change period, and competitively priced parts provide low cost of ownership

### Durable power

- Maximum cooling efficiency is provided by a gear driven water pump. Leak free operation is ensured by Viton crankshaft seals and sophisticated controlled swell joints

### Reliable power

- Suitable for operation in ambient temperatures up to 50°C and sea waters up to 38°C. Fuelled starting aid for temperatures down to -20°C. Approved by classification societies and marine authorities

### Product support

- Perkins actively pursues product support excellence by ensuring our distribution network invest in their territory – strengthening relationships and providing more value to you, our customer
- Through an 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 fingertips covering technical information, parts identification and ordering systems, all dedicated to maximising the productivity of your engine
- Throughout the entire life of a Perkins engine, we provide access to genuine OE specification parts and service. We give 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](http://www.perkins.com/distributor)

E-mail: [Marine@Perkins.com](mailto:Marine@Perkins.com) Web: [www.Perkins.com/Marine](http://www.Perkins.com/Marine)

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## Technical information

### Benefits

- Excellent power to weight
- Ease of Installation
- Clean, quiet, smooth operation
- Excellent fuel economy
- Easy to maintain with 500hr Service interval
- Reliability

### Standard features

- Heavy duty – dry element
- Closed circuit beathing system
- Thermostat controlled fresh water heat exchanger cooling system with gear driven raw and fresh water pumps, deaeration header tank and high quality silicone hoses or engine with gear driven fresh water pump adapted for keel cooling
- Fresh water cooled exhaust manifold with side mounted turbocharger (insulated)
- Delphi rotary fuel pump with optional electronic governor, mechanical fuel lift pump, canister filter and agglomerator
- Mechanical speed control to BS5514 Class1
- High inclination aluminium sump with dipstick on LHS of engine
- Twin lube oil filters and block mounted plate type oil cooler
- Engine mounted sump drain pump
- Belt cover
- Fuelled starting aid down to -20°C (-4°F)

### Optional equipment

- Backend – SAE 3 or twin starter pocket SAE 2
- 12 or 24 volt marine insulated electrics
- Exhaust outlets either dry with bellows and silencer or water injected
- Electronic governor with Isochronous governing and speed control to  $\pm 0.25\%$
- Heat exchanger and keel cooling
- Fuel filters with change over facility
- Double skinned, high pressure, fuel pipes
- PTO facility
- Engine mounting feet
- 5000 hrs parts kit
- Toolkit

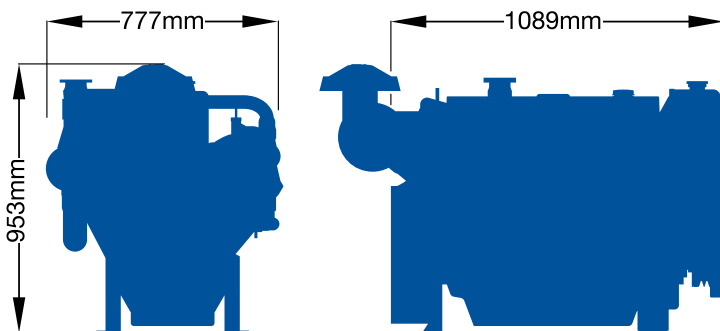
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Engine package weights and dimensions		
Length	1089 mm	43 in
Width	777 mm	31 in
Height	953 mm	38 in
Weight (dry)	479 kg	1056 lb

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Speed rpm	Type of operation	Typical generator output (Net)		Engine power			
				Gross		Net	
		kVA	kWe	kW	hp	kW	hp
1800	Prime power	124.0	99.0	110.0	147.5	110.0	147.5
	110%	136.0	109.0	121.0	162.0	121.0	162.0

#### Rating definitions

**Prime power:** Power for continuous service. Overload of 10% is permitted for 1 hour in very 12 hours' operation.

For further details on definitions please contact your local Perkins distributor.

Percent of prime power	Fuel consumption at 1800 rpm g/kWh	Fuel consumption at 1800 rpm l/hr
100% power	6.0	27.2
110% power	6.8	31.0

These ratings represent the performance capabilities to conditions specified in BS5514:1996, ISO 3046/1:1995 and DIN 6271.

Test Conditions Air temperature 25°C (80.6°F) barometric pressure 100 kPa (29.5 in Hg), relative humidity 30%, maximum exhaust back pressure 5 kPa, maximum inlet restriction 1 kPa.

For operation outside of these conditions please consult your Perkins contact. Performance tolerance quoted by Perkins is ± 5%.

Electrical ratings assume a power factor of 0.8 and a generator efficiency of 90%.

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