

1100 Series 4.4GM Marine Auxiliary Engine

42.7 kW (57.3 hp) gross prime power @ 1500 rpm

Building upon Perkins proven reputation within the marine power generation industry. The 4.4 range of marine auxiliary engines now fit even closer to the needs of their customers.

In the world of power generation success is greeted for those providing more for even less. Therefore with this new 4.4GM unit, Perkins has engineered for its customers even higher levels of reliability, yet lowered the cost of ownership. Also with 6 cylinder capability from a 4 cylinder package, performance increases but crucially, bare engine noise is lower than ever before.

Rapid starting and pick-up are naturally built in especially for cold operation, but where legislation or local markets demand an emissions capability, then the 4.4GM satisfies current European emissions legislation.

The 4.4 range matches technology to customers needs. An in-line 4 cylinder, 4.4 litre unit very quietly sets a new standard in prime power supply and standby for the marine power generation industry.



Specification		
Number of cylinders	4 vertical in-line	
Bore and stroke	105 x 127 mm	4.1 x 5.0 in
Displacement	4.41 litres	269 in ³
Aspiration	Naturally aspirated	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	18.23:1	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	8.5 litres	2.2 US gal
Cooling system	Water-cooled	
Total coolant capacity	15 litres	3.9 US gal

www.Perkins.com/Marine

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All information in this document is substantially correct at time of printing and may be altered subsequently.
Final weight and dimensions will depend on completed specification.

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 **Perkins**[®]

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 500 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 cast aluminium header tank for reduced service time and cost. Extended service intervals, including 500 hour (or 12 months) oil change period, and competitively priced parts provide low cost of ownership. Rated speed is available at 1500 rpm and 1800 rpm allowing standard builds to operate at either 50 Hz or 60 Hz

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, giving protection in the toughest conditions. Built from heavy duty industrial core which is ideally suited to constant speed applications

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 -15°C. Approved by classification societies and marine authorities. Our commitment to quality is your guarantee of reliability

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

E-mail: Marine@Perkins.com Web: www.Perkins.com/Marine

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Technical information

Air inlet

- Air filter
- Closed engine breather system
- De-aeration header tank

Fuel system

- Rotary fuel injection pump
- Spin-on fuel oil filter and separator

Lubrication system

- Spin-on full flow lub oil filter with integral lubrication oil cooler on left side of engine

Cooling system

- Thermostatically controlled cooling water system
- Gear driven fresh water pump

Electrical equipment

- Wiring harness with 23-way connector
- Electronic governor (control to ISO 8528 G3)

Flywheel and housing

- Backend SAE3

General

- Water jacketed exhaust manifold
- Flat bottomed cast iron sump

Literature

- User's Handbook

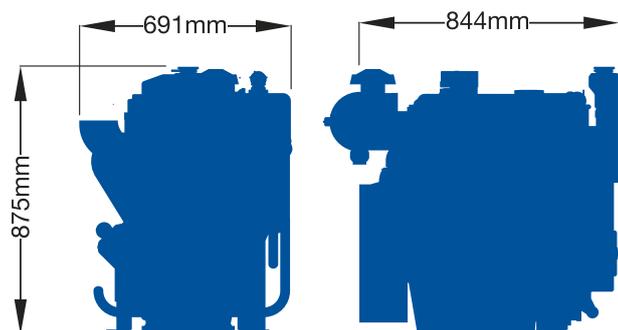
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Engine package weights and dimensions		
Length	844 mm	33 in
Width	691 mm	27 in
Height	875 mm	34 in
Weight (dry)	462 kg	1018 lb

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Speed rpm	Type of operation	Typical generator output (Net)		Engine power			
				Gross		Net	
		kVA	kWe	kW	hp	kW	hp
1500	Prime power	48.0	38.4	42.7	57.3	42.7	57.3
	110%	52.9	42.3	47.0	63.0	47.0	63.0

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 1500 rpm g/kWh	Fuel consumption at 1500 rpm l/hr
100% power	2.4	11.0
110% power	2.7	12.2

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 6 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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