Perkins

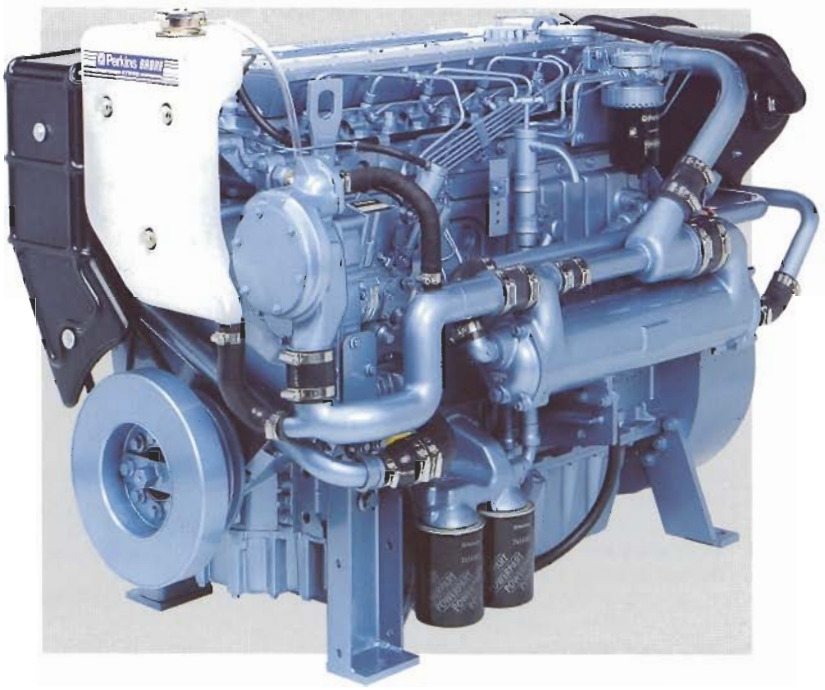
Perkins SABRE MARINE POWER

6TG2AM

114 kVA 1500 rev/min
136 kVA 1800 rev/min

Marine Gen Set Power

From the Perkins Sabre partnership, and based on Perkins universally acclaimed 1000 Series, a 6 cylinder turbocharged diesel engine.



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
- **Over 4,000 distributors and dealers** offer full parts and service support worldwide
- **Approved by** classification societies and marine authorities

Engine Speed	Type of Operation	Typical Generator Output		Nett Engine Power	
rpm		kVA	kWe	kWm	bhp
1500	Prime (Continuous)	104	83.5	92.5	124
	Standby (Maximum)	114	91.5	101.5	136
1800	Prime (Continuous)	124	99	110	147.5
	Standby (Maximum)	136	109	121	162

Note: All engine rating data based on operation under BS5514: 1996, ISO 3046/1:1995 and DIN 6271 conditions.

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%

Rating Definitions

Prime power Power available at variable load in lieu of main power network
An overload of 10% is permitted for one hour in every twelve hours of operation

Standby power Power available at variable load in the event of a main power network failure
No overload is permitted

Perkins SABRE MARINE POWER

6TG2AM

Standard Engine Specification

- **Air cleaner**
  Heavy duty – dry element
- **Breather system**
  Closed circuit
- **Cooling 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
- **Exhaust system**
  Fresh water cooled exhaust manifold with side mounted turbocharger (insulated)
- **Fuel system**
  Stanadyne rotary fuel pump with electric stop solenoid
  Fuel lift pump, cannister filter and agglomerator
- **Governing**
  Mechanical speed control to BS5514 Class 1
- **Lubrication system**
  High inclination aluminium sump with dipstick on LHS of engine
  Twin lub oil filters and block mounted plate type oil cooler
  Engine mounted sump drain pump
- **Belt cover**
  Standard fitment
- **Cold start aid**
  Fuelled starting aid down to –20°C (–4°F)

Optional Equipment

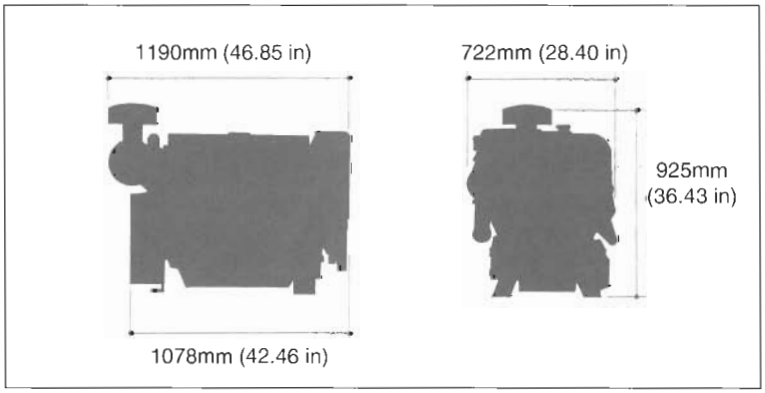
- **Backend** – SAE 3 or twin starter pocket SAE 2
- **12 or 24 volt** marine insulated electrics
- **Exhaust outlets** either dry with bellows and silencer or water injected
- **Electronic governor** with Isochronous governing and speed control to ± 0.25%
- **Heat exchanger and keel cooling** with radiator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

General Data

Number of cylinders	6, in line
Cycle	4-stroke
Induction system	Turbocharged
Combustion system	Direct injection
Compression ratio	16.0:1
Cubic capacity	5.99 litres (365 in^3)
Total weight (dry)	479 kg (1276 lb)
Total weight (wet)	626 kg (1380 lb)

Typical Fuel Consumption

rev/min	1500 rpm		1800 rpm	
	litre/hour	UKgall/hour	litre/hour	UKgall/hour
At 110% of power rating	26.7	5.87	31.0	6.82
At 100% of power rating	23.0	5.06	27.2	5.98
At 75% of power rating	17.0	3.74	22.5	4.95
At 50% of power rating	11.5	2.53	15.0	3.30



Distributed by:

Perkins

Perkins Engines Company Limited

Publication Number 1379 6/98

A Partnership in Marine Power

SABRE

For more information regarding the product please contact:
Sabre Engines Ltd
Wimborne
Dorset BH21 7PW
England

Telephone +44 (0) 1202 893720
Facsimile +44 (0) 1202 851700
E-Mail Post@Sabre-engines.co.uk