



# How much power do I need?

**aqua**watt



1.341 HP  
= 1 KW

**A 2 HP trolling motor is suitable to move small dinghies, cats, sailboats or inflatable boats upto 700 kg upto 4-5 knots.**

**A single 20 HP electric motor can move a suitable boat of 400 kg over 20 knots. For trolling it can drive a 3 – 6 tonne boat upto 8 knots.**

The power and the thrust are relevant for the overall performance of a motor. A 20 HP petrol engine has less thrust but more power/speed than a similar electric engine. The electric engine offers a high torque at a wider range of rotation speed. So generally the petrol engine goes faster with a light boat where the electric motor produces more thrust.

Some rough indications for petrol engines:

- For trolling at 3-5 knts 60-70 lbs/HP
- For trolling at 6-8 knts 30-50 lbs/HP
- For cruising at 10 knts 25-40 lbs/HP
- For speed over 10 knts 5 – 20 lbs/HP

The aquawatt motor can deliver upto **1095 lbs** thrust when used below 10 knts. But unlike other electric outboard motors on the market, the AC motor and controller adapt to the weight and the resistance of the boat automatically. So you can have the optimized power and thrust at all times. See documentation on our website for details.

**All data for information purposes only and subject to conditions, hull, batteries, setup etc.**

*For online calculations use our free web – calculator:*  
[http://www.all4solar.com.au/ALL4SOLAR\\_CALCULATOR.htm](http://www.all4solar.com.au/ALL4SOLAR_CALCULATOR.htm)

**high speed with two motors...**



**cruising with no noise... pure elegance...**



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