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Case study name

**Ampair 100 on yacht Northanger in the Arctic and Antarctic**



**Commentary**

The sailing yacht Northanger is legendary amongst modern polar explorers. The co-skippers Greg Landreth and Keri Pashuk have taken this steel hulled lift-keel ketch to the ends of the oceans on an 18-year permanent expedition. The photo above was taken whilst Northanger was frozen into the Arctic ice in 1999/2000 whilst overwintering in Hourglass Bay on Ellesmere Island, Nunavut – Canada. In these circumstances their Ampair 100 is in constant use and “*never failed to give smooth, quiet power even during temperatures down to - 43 degrees Celsius and winds exceeding 60 knots* “. This was something of a shakedown cruise for them and since then they have based in Punta Arenas, Chile and concentrated on voyaging around Antarctica. In 2007 they contacted us for some spare blades and we recognised the yacht from our own mountaineering experiences and were very happy to discover that they had been using Ampair all these years. We have since become an official Northanger sponsor.

<b>Country</b>	Norway	<b>Date of installation</b>	March 2007
<b>Owner details</b>	<a href="http://www.northanger.org">www.northanger.org</a>	<b>Installed location</b>	SY Northanger
<b>Use</b>	Domestic	<b>Total installed cost;</b>	£550
<b>Manufacturer</b>	Ampair	<b>Turbine type</b>	Ampair 100
<b>Site windspeed (average annual)</b>	varies	<b>Annual energy production</b>	unknown (enough !)
<b>Rated power of turbine</b>	100 W	<b>Windspeed at which rated</b>	20.0 m/s
<b>Installer</b>	DIY	<b>Installer contact details</b>	DIY
<b>Mounting</b>	Stern pole	<b>Output</b>	Battery charge (12V)