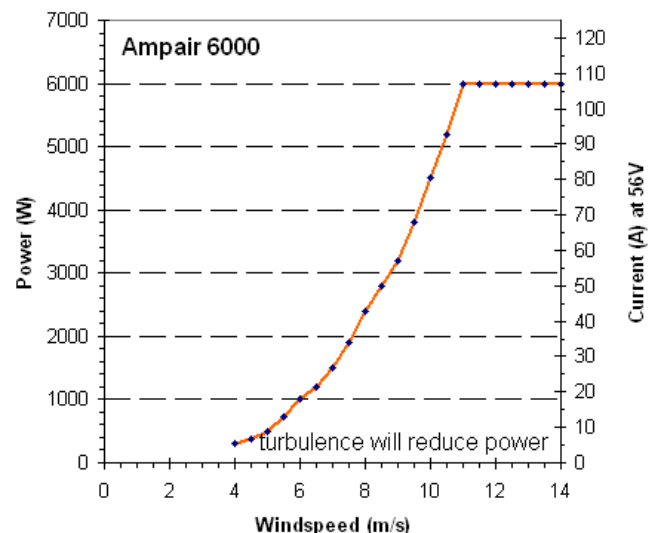
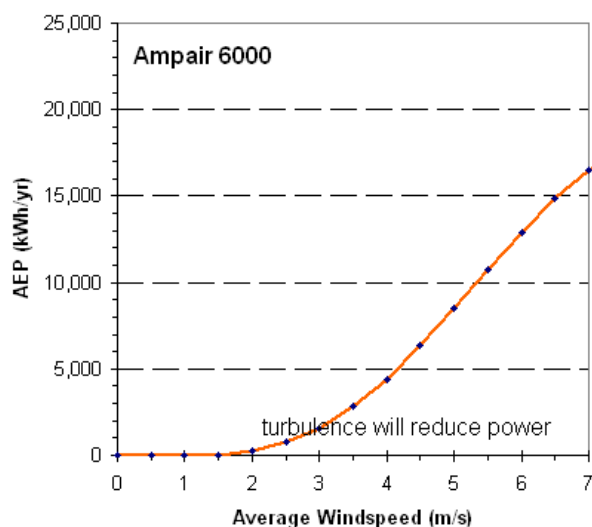


# Ampair<sup>®</sup> 6000 x 5.5 technical specifications



|   | <b>220-240 V AC grid-tie</b>   | <b>48V DC battery charge</b> |
|---|--|------------------------------|
| Reference power at 11.0 m/s (24.6 mph)        | 6000 W (into grid)   | 6000 W (into battery)        |
| Power form                                    | 230 V AC, 50Hz<br>240 V AC, 60 Hz  | 48 V DC                      |
| Reference annual energy at 5.0 m/s (11.2 mph) | 8500 kWh/yr  |                              |
| Starting wind speed                           | 3.0 m/s (6.7 mph)  |                              |
| Cut-in wind speed                             | 3.5 m/s (7.8 mph)  |                              |
| Cut-out wind speed                            | 15 - 25 m/s (33–56 mph)  |                              |
| Survival wind speed                           | 65 m/s (140 mph)   |                              |
| Maximum power                                 | 6000 W   |                              |
| Maximum voltage                               | 600 V into inverter  |                              |
| Maximum current                               | 10.9 A into inverter   |                              |
| Direction of rotation                         | Clockwise looking downwind   |                              |
| Rotor swept area                              | 23.74 m <sup>2</sup> (255 feet <sup>2</sup> )  |                              |
| Rotor diameter                                | 5.5 m (18 feet)  |                              |
| Rotor speed                                   | 70 – 240 rpm   |                              |
| Generator output                              | Three phase to regulator or inverter   |                              |
| Over speed control                            | Electronic speed control & triple redundant relay brake  |                              |
| Weight  | 154 kg body + 36 kg blades = 190 kg total (419 lbs)  |                              |
| Body construction                             | Marine grade powder coated aluminium castings with marine grade stainless steel fittings   |                              |
| Blade construction                            | Glass filled polypropylene (twintex <sup>™</sup> )   |                              |
| Generator type                                | Direct drive NeFeBr permanent magnet brushless   |                              |
| Towers  | 10m and 15m tilt-up monopole   |                              |
| Noise   | 54 dBA at 30m from turbine in 11 m/s wind  |                              |
| Longevity                                     | 20-year design life  |                              |
| Inspection                                    | Annual visual inspection from ground level   |                              |
| Temperature range                             | -20°C to +40°C ambient   |                              |
| Conformity                                    | BS EN 61400-2 (2006): small wind turbines<br>BS EN 60335-1 (1994) safety of household appliances<br>LV Directive 73/23/EC: EU low voltage directive<br>EMC Directive 89/336/EC: EU EMC directive<br>Inverter per VDE 0126-1-1; G59; UL1741 |                              |

All specifications are nominal pending completion of the test programme.



Ampair<sup>®</sup> is a business of Boost Energy Systems Ltd, manufacturers of small scale power systems since 1957.

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