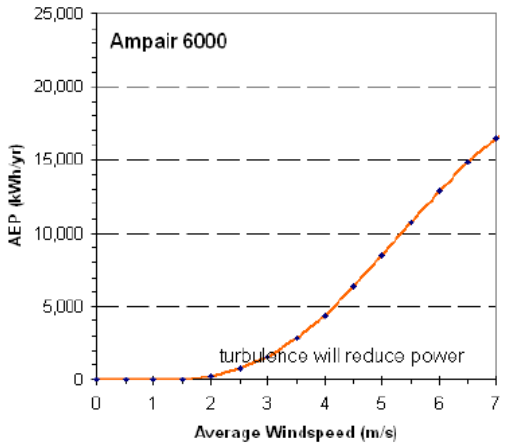
energyconnect uk
committed to a responsible future

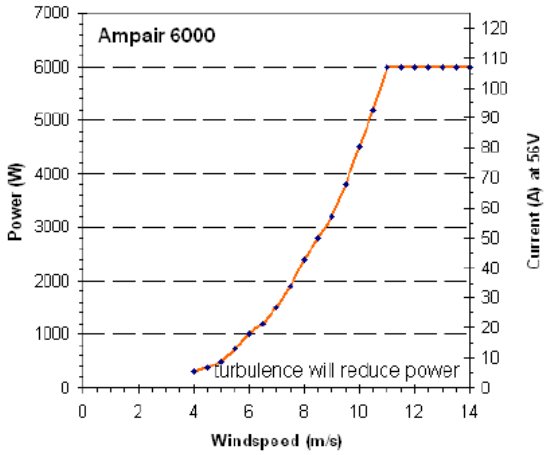
Ampair® 6000 x 5.5 technical specifications

ampair MicroWind

	220-240 V AC grid-tie	48V DC battery charge
Reference power at 11.0 m/s (24.6 mph)	6000 W (into grid)	6000 W (into battery)
Power form	230 V AC, 50Hz 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^2 (255 $feet^2$)	
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™)	
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 BS EN 60335-1 (1994) safety of household appliances LV Directive 73/23/EC: EU low voltage directive EMC Directive 89/336/EC: EU EMC directive Inverter per VDE 0126-1-1; G59; UL1741	

All specifications are nominal pending completion of the test programme.





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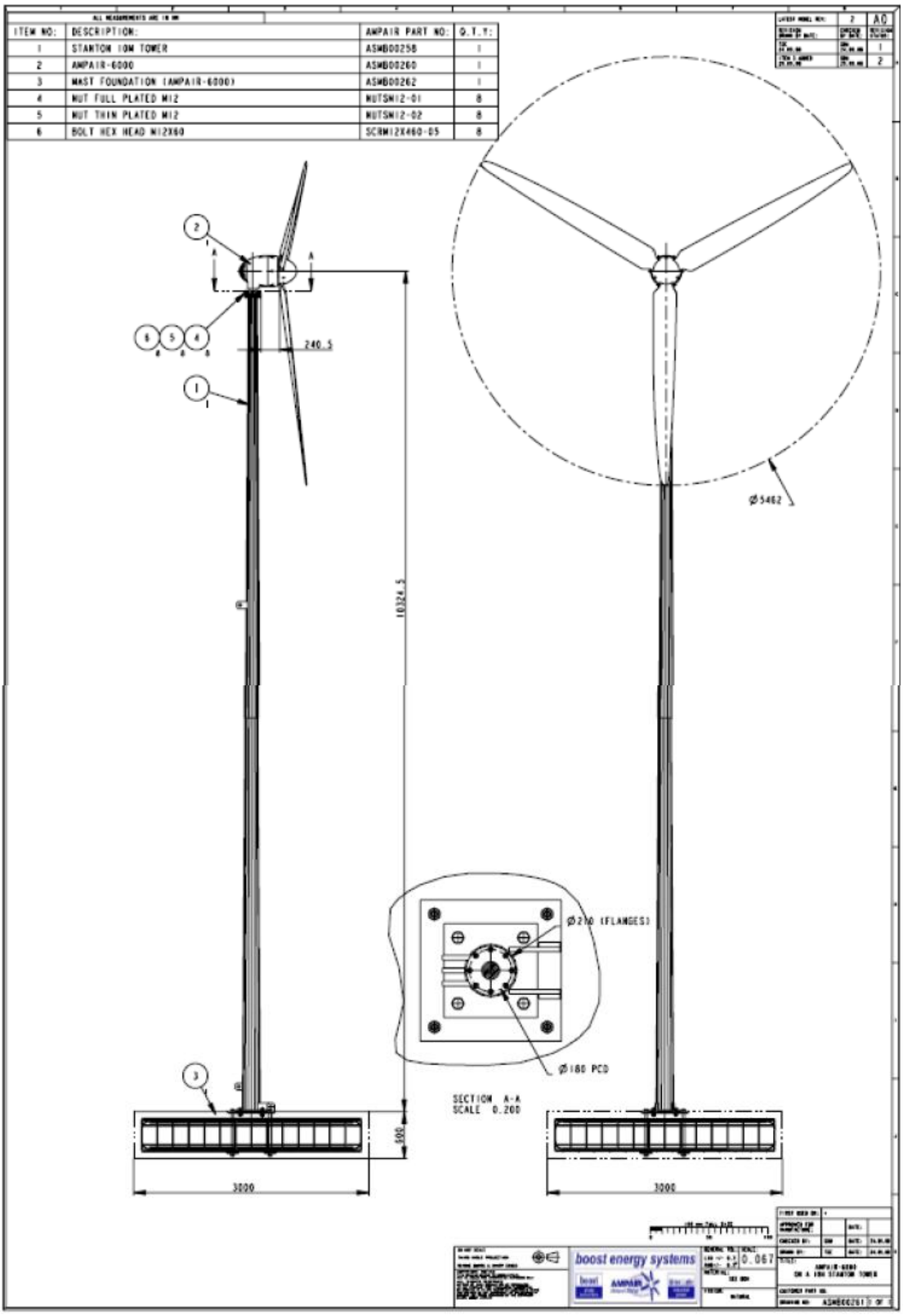

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