



ae 3.0-65.5

General Data

Blade length (m)	65.5	Maximum chord (m)	4.4
Design Type Class (-)	3A	Prebending at tip (m)	4.10

Operation Parameter	
Rated power (kW)	3000
Rotor diameter (m)	134
Nominal speed (rpm)	12.2
Nominal tip speed (m / s)	85

Aerodynamic Parameter

Tip speed ratio (-)	9.5
Power coefficient** (-)	0.48

Blade Connection

BCD blade root (mm)	2800
Number, size of tension bolts	to be defined

Mass and Frequencies

Mass (excl. T-Bolts) (kg)	16175
Mass-T-Bolts (kg)	to be defined
CoG (m)	20.38
First / Second flap-wise frequency (Hz)	0.52 / 1.42
First/Second edge-wise frequency (Hz)	0.78 / 2.42

** conservative approximation, depends on specific turbine configuration

The standard design of the blade is performed with the wind conditions and operation parameters as listed above. Any customized modifications of the wind conditions, the blade materials and the structural design are possible. Its lightweight construction using modern glass fibre textiles along with its load reducing design makes this blade well-balanced. The blades' structure is based on the well proven and successful AEblade concept.

