

Technical Data AV 1010 – 2.3 MW and Power curve

Performance

Concept	Gearless
Rated power	2,300 kW
Cut-in wind speed	3 m/s
Rated wind speed	11.2 m/s
Cut-out wind speed	25 m/s
Survival wind speed	52.5 m/s
Wind class	IEC IIIa

Generator

Construction	Direct drive PM-generator
Speed range	14.3 rpm, variable
Size	5 m \varnothing x 1,2 m
Rotor	PM, outer
Stator	Water-cooled, internal
Nominal output, Voltage	min. 2,600 kW, 690 V
Main bearing	Taper roller bearing, cylindrical
Protection class	IP 54

Rotor

Rotor diameter	100.6 m
Swept area	7,948 m ²
Rated speed	14.3 rpm

Yaw system

Electrical gear motors

Rotor blade

Material	GRP/Epoxy
Type	AVANTIS AB 100
Length	49 m
Weight	10.5 t

Electrical system

Converter	Full IGBT Rectifier/ Inverter
Frequency	50/60 Hz
Output voltage	690 V
Cooling	Water-cooled

Power regulation

Speed control	Pitch control Active blade pitch control
Main brake	Individual blade pitch control
Secondary brake	Hydraulic disc brake

Noise level

95 % rated power	104.7 dB(A)
------------------	-------------

Tower

Hub height	99 m
Type	Tubular steel tower

Operating temperature range -40° C to +40° C

All data subject to change

