

Technical Data AV 928 – 2.5 MW and Power curve

Performance

Concept	Gearless
Rated power	2,500 kW
Cut-in wind speed	3 m/s
Rated wind speed	11.6 m/s
Cut-out wind speed	25 m/s
Survival wind speed	59.5 m/s (70 m/s*)
Wind class	IEC IIa

Generator

Construction	Direct drive PM-generator
Speed range	16 rpm, variable
Size	∅ 5 m x 1.2 m
Rotor	PM, outer
Stator	Water-cooled, internal
Nominal output, Voltage	min. 2,750 kW, 690 V
Main bearing	Taper roller bearing, cylindrical
Protection class	IP 54

Rotor

Rotor diameter	93.2 m
Swept area	6,822 m ²
Rated speed	16 rpm

Yaw system

Electrical gear motors

Rotor blade

Material	GRP/Epoxy
Type	AVANTIS AB 92
Length	45.3 m
Weight	10.2 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)
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Tower

Hub height	80 m, 99 m
Type	Tubular steel tower

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

* AV 928 T (Typhoon)

All data subject to change

