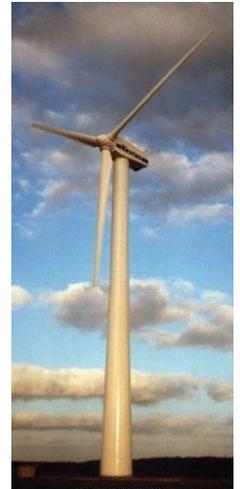


VESTAS V39 500 39.0

Company	VESTAS
Type/Version	V39
Rated power	500,0 kW
Secondary generator	0,0 kW
Rotor diameter	39,0 m
Tower	Tubular
Grid connection	50 Hz
Origin country	DK
Blade type	VESTAS 19
Generator type	One generator
Rpm, rated power	30,0 rpm
Rpm, initial	0,0 rpm
Hub height(s)	40,5; 35,0; 53,0 m
Maximum blade width	0,00 m
Blade width for 90% radius	0,00 m
Valid	No
Creator	EMD
Created	2000-09-07 00:00
Edited	2000-09-07 00:00



Power curve: Man. 24-08-00 1.225 25.00 0.00

Source Manufacturer

Source date	Creator	Created	Edited	Default	Stop windSpeed	Air density	Tip angle	Power control	CT curve type
					[m/s]	[kg/m3]	[°]		
2000-08-24 00:00	EMD	2000-11-20 14:00	2001-06-13 13:54	No	25,0	1,225	0,0	Pitch	User defined

Power curve is calculated

Power curve

Wind speed [m/s]	3,00	4,00	5,00	6,00	7,00	8,00	9,00	10,00	11,00	12,00	13,00	14,00	15,00	16,00	17,00
Power [kW]	0,00	0,00	23,00	59,00	105,00	164,00	233,00	308,00	381,00	440,00	478,00	494,00	499,00	500,00	500,00
Ce	0,000	0,000	0,251	0,373	0,418	0,438	0,437	0,421	0,391	0,348	0,297	0,246	0,202	0,167	0,139

Wind speed [m/s]	18,00	19,00	20,00	21,00	22,00	23,00	24,00	25,00
Power [kW]	500,00	500,00	500,00	500,00	500,00	500,00	500,00	500,00
Ce	0,117	0,100	0,085	0,074	0,064	0,056	0,049	0,044

Ct curve

Wind speed [m/s]	3,00	4,00	5,00	6,00	7,00	8,00	9,00	10,00	11,00	12,00	13,00	14,00	15,00	16,00	17,00	18,00	19,00	20,00	21,00	22,00	23,00	24,00	25,00
Ct	0,00	0,00	0,89	0,80	0,87	0,81	0,77	0,72	0,65	0,54	0,45	0,33	0,26	0,21	0,18	0,15	0,13	0,11	0,09	0,08	0,07	0,06	0,06

HP curve comparison

Vmean	[m/s]	5	6	7	8	9	10
HP value	[MWh]	555	928	1 313	1 696	2 020	2 303

Man. 24-08-00 1.225 25.00 0.00 [MWh] 553 919 1 305 1 673 2 001 2 279

Check value [%] 0 1 1 1 1 1

