

JACOBS 43-600 600-100 43.0

File C:\WindPRO Data\WTG Data\JACOBS 43-600 600-100 43.0 !O!.wtg

Company JACOBS
 Type/Version 43/600
 Rated power 600,0 kW
 Secondary generator 100,0 kW
 Rotor diameter 43,0 m
 Tower Tubular
 Grid connection 50 Hz

Origin country DE
 Blade type LM 19.1
 Generator type Two generator
 Rpm, rated power 27,0 rpm
 Rpm, initial 18,0 rpm
 Hub height(s) 40,0; 50,0; 60,0 m
 Maximum blade width 0,00 m
 Blade width for 90% radius 0,00 m
 Valid No
 Creator EMD
 Created 1999-12-08 00:00
 Edited 1999-12-08 00:00



Noise: Windtest 09/97 8.0
 Source WINDTEST KWK

Source date	Creator	Created	Edited	Default
1997-09-01 00:00	User	1999-12-08 00:00	2001-05-31 14:20	No

Power curve: Dr. Frey 09/00

Source date	Creator	Created	Edited	Default	Stop windSpeed [m/s]	Air density [kg/m3]	Tip angle [°]	Power control	CT curve type
2000-09-28 00:00	EMD	1997-09-01 00:00	2001-12-11 10:35	No	25,0	1,225	-0,5	Stall	Standard stall

only measured up to 17,51m/s; higher wind speeds are being set to power at that speed.

Power curve

Wind speed [m/s]	3,00	3,14	3,55	4,02	4,48	4,98	5,50	6,01	6,50	7,00	7,49	7,99	8,48	8,97	9,48
Power [kW]	0,00	1,79	6,88	19,16	29,34	42,63	56,02	70,92	94,76	120,11	155,97	192,56	231,80	272,88	313,89
Ce	0,000	0,057	0,156	0,297	0,363	0,406	0,395	0,373	0,381	0,405	0,426	0,433	0,436	0,431	0,420
Wind speed [m/s]	9,98	10,47	10,96	11,47	12,03	12,49	13,01	13,50	14,02	14,50	14,99	15,50	15,93	16,48	16,91
Power [kW]	367,53	400,47	436,18	467,94	521,36	555,97	570,48	592,76	606,77	612,68	619,49	616,68	617,12	599,10	635,91
Ce	0,411	0,397	0,379	0,361	0,345	0,324	0,298	0,275	0,252	0,226	0,207	0,186	0,172	0,150	0,148
Wind speed [m/s]	17,51														
Power [kW]	585,28														
Ce	0,123														

HP curve comparison

	Vmean [m/s]	5	6	7	8	9	10
HP value	[MWh]	697	1 126	1 578	2 004	2 385	2 722
Dr. Frey, official from man.	[MWh]	707	1 139	1 600	2 043	2 440	2 775
Check value	[%]	-1	-1	-1	-2	-2	-2
Dr. Frey 09/00	[MWh]	706	1 140	1 600	2 042	2 436	2 767
Check value	[%]	-1	-1	-1	-2	-2	-2

