

POWERCURVE FOR V20-90.

NR. 57EK0020

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Dato 871214

Powercurve calculated on basis of measurements on Vestas V20-90.

Parameters for calculated curve:

Rotordiameter	:	20.0	m
Rotorspeed (synchronous)	:	45.2	rpm
Tippitch	:	-2.0	°
Airdensity	:	1.225	kg/m <sup>3</sup>

Wind velocity	El-power output	Uncertainty
v (m/s)	Pe1 (kW)	± Pe1 (kW)
4.0	0.0	0.0
5.0	5.6	3.3
6.0	13.3	4.3
7.0	24.6	4.9
8.0	38.8	4.7
9.0	50.0	4.6
10.0	59.6	4.3
11.0	67.9	3.7
12.0	77.2	3.4
13.0	84.4	3.1
14.0	88.8	2.6
15.0	92.0	2.3
16.0	93.9	2.1
17.0	93.6	1.8
18.0	93.1	1.6
19.0	92.6	1.6
20.0	92.5	1.6
21.0	92.9	1.6
22.0	93.5	1.6
23.0	94.5	1.6

The uncertainty of the power at a given wind velocity is expected to be as listed in the column: ± Pe1.

The wind velocity is given in hubheight, perpendicular to rotorplane.