

Variable	Lower bounds	Upper bounds	Distribution
U	$U \geq 4 \text{ m s}^{-1}$	$U \leq 25 \text{ m s}^{-1}$	Beta
σ_u	$\sigma_u \geq 0.025 \cdot U \text{ (m s}^{-1}\text{)}$	$\sigma_u \leq 0.18 \left(6.8 + 0.75U + 3 \left(\frac{10}{U} \right)^2 \right) \text{ (m s}^{-1}\text{)}$	Uniform
α	$\alpha \geq \alpha_{\text{ref, LB}} - 0.23 \left(\frac{U_{\text{max}}}{U} \right) \left(1 - \left(0.4 \log \frac{R}{z} \right)^2 \right)$	$\alpha \leq \alpha_{\text{ref, UB}} + 0.4 \left(\frac{R}{z} \right) \left(\frac{U_{\text{max}}}{U} \right)$	Uniform
L	$L \geq \max\{7.5 \text{ m}, (15 \text{ m}) \cdot \alpha ^{-2/3}\}$	$L \leq 275 \text{ m}$	Uniform
Γ	$\Gamma \geq 1$	$\Gamma \leq 5$	Uniform
$\Delta\varphi_h$	$\Delta\varphi_h \geq -0.1D \left(\frac{5}{U} \right)$	$\Delta\varphi_h \leq \min \left\{ 60^\circ \sin \phi , 1.0D \left(\frac{5}{U} \right)^2 \right\}$	Uniform
$\bar{\varphi}_h$	$\bar{\varphi}_h \geq -10^\circ$	$\bar{\varphi}_h \leq 10^\circ$	Uniform
$\bar{\varphi}_v$	$\bar{\varphi}_v \geq -10^\circ$	$\bar{\varphi}_v \leq 10^\circ$	Uniform
ρ	$\rho \geq 1.1 \text{ kg m}^{-3}$	$\rho \leq 1.35 \text{ kg m}^{-3}$	Uniform

Where

- R is the rotor radius, D the rotor diameter;
- $\alpha_{\text{ref, LB}} = 0.15, \alpha_{\text{ref, UB}} = 0.22$ are reference wind shear exponents at 15 m s^{-1} wind speed;
- $U_{\text{max}} = 25 \text{ m s}^{-1}$ is the upper bound of the wind speed;
- ϕ is the reference latitude (here chosen as 50°).