



Blade family EU 51 | 55 | 59

BLADE TYPE

Hand lamination	EU 50.1250-2	EU 54.1250-2
Vacuum infusion		EU 54.1250.1-B

GENERAL

Rotor diameter (approx.) (m)	50	54
Rated power (kW)	750	750
Power control	Pitch	Pitch
Nominal wind speed (m/s)	11.1	10.7
Nominal tip speed (m/s)	75	75
Materials	Glass/Epoxy	Glass/Epoxy
Mass (t)	2.20	2.35

AERODYNAMICS

Airfoils	EUROS, DU, NACA64	EUROS, DU, NACA64
Design tip speed ratio	7.5	8.4
Max. power coefficient	0.49	0.49

GEOMETRY

Blade length (m)	24.50	26.35
Max. Chord (m)	2.40	2.40
Twist (deg)	11.5	12.5
Blade area (m ²)	39.1	40.2

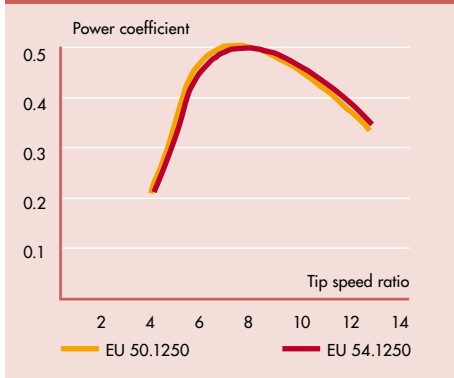
MOUNTING

Mounting diameter (mm)	1250/1200	1250/1200
No. of bolts	40	40/44
Bolt size	M24x1.5/M27	M27

MISCELLANEOUS

Lightning protection	Aluminum receptor	Aluminum receptor
Erosion protection	PU-foil	PU-foil

POWER CURVE



EUROS DESIGN PHILOSOPHY

Blades are designed in families. Center section is identical within one family. Root and tip segments can be exchanged to meet customer specifications.

CONTACT

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Blades and more ...



Blade family EU 51 | 55 | 59

BLADE TYPE

Hand lamination	(On request)	EU 56.1400-2
Vacuum infusion	EU 53.1400.1-B	EU 56.1400.1-B

GENERAL

Rotor diameter (approx.) (m)	53	56
Rated power (kW)	1000	1000
Power control	Pitch	Pitch
Nominal wind speed (m/s)	12.1	11.8
Nominal tip speed (m/s)	75	75
Materials	Glass/Epoxy	Glass/Epoxy
Mass (t)	2.6*	2.80

AERODYNAMICS

Airfoils	EUROS, DU, NACA64	EUROS, DU, NACA64
Design tip speed ratio	7.5	8.5
Max. power coefficient	0.48	0.48

GEOMETRY

Blade length (m)	25.65	27.50
Max. Chord (m)	2.40	2.40
Twist (deg)	11.5	12.5
Blade area (m ²)	41.5	42.5

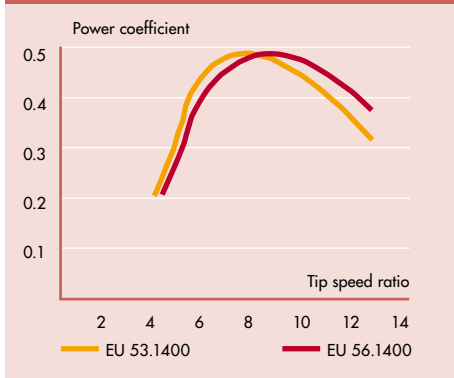
MOUNTING

Mounting diameter (mm)	1400	1400
No. of bolts	44	44
Bolt size	M27	M27

MISCELLANEOUS

Lightning protection	Aluminum receptor	Aluminum receptor
Erosion protection	PU-foil	PU-foil

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Blades and more ...

* Design Value



Blade family EU 51 | 55 | 59

BLADE TYPE

Hand lamination	EU 60.1400-3	EU 64.1400-3
Vacuum infusion	EU 60.1400.1-B	EU 64.1400.1-B

GENERAL

Rotor diameter (approx.) (m)	60	64
Rated power (kW)	1000	1000
Power control	Pitch	Pitch
Nominal wind speed (m/s)	11.1	10.8
Nominal tip speed (m/s)	75	75
Materials	Glass/Epoxy	Glass/Epoxy
Mass (t)	3.35	3.55

AERODYNAMICS

Airfoils	EUROS, DU, NACA64	EUROS, DU, NACA64
Design tip speed ratio	7.8	8.7
Max. power coefficient	0.48	0.48

GEOMETRY

Blade length (m)	29.05	31.05
Max. Chord (m)	2.55	2.55
Twist (deg)	12.2	13.2
Blade area (m ²)	51.1	53.3

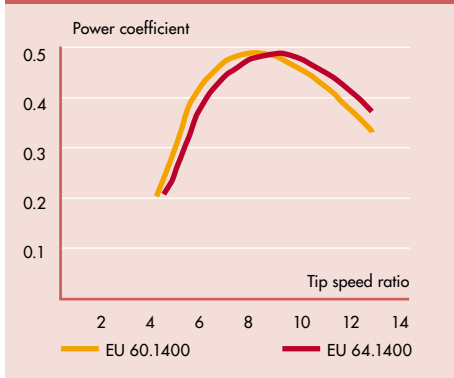
MOUNTING

Mounting diameter (mm)	1400	1400
No. of bolts	44	44
Bolt size	M27	M27

MISCELLANEOUS

Lightning protection	Aluminum receptor	Aluminum receptor
Erosion protection	PU-foil	PU-foil

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Blades and more ...



Blade family EU 70 | 77 | 80

BLADE TYPE

Hand lamination	(On request)	(On request)
Vacuum infusion	EU 70.1800.1-A	EU 77.1800.1-B

GENERAL

Rotor diameter (approx.) (m)	71	77
Rated power (kW)	1500	1500
Power control	Pitch	Pitch
Nominal wind speed (m/s)	11.1	10.5
Nominal tip speed (m/s)	75	75
Materials	Glass/Epoxy	Glass/Epoxy
Mass (t)	6.0*	6.4*

AERODYNAMICS

Airfoils	EUROS, DU, NACA64	EUROS, DU, NACA64
Design tip speed ratio	6.9	7.3
Max. power coefficient	0.50	0.50

GEOMETRY

Blade length (m)	34.50	37.50
Max. Chord (m)	3.08	3.08
Twist (deg)	10.8	11.2
Blade area (m ²)	75.4	79.8

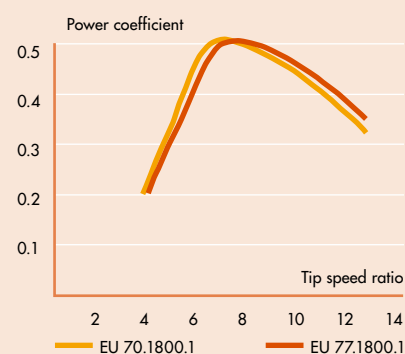
MOUNTING

Mounting diameter (mm)	1800	1800
No. of bolts	54	54
Bolt size	M30	M30

MISCELLANEOUS

Lightning protection	Aluminum receptor	Aluminum receptor
Erosion protection	PU-foil	PU-foil

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Blades and more ...

* Design Value



Blade family EU 70 | 77 | 80

BLADE TYPE

Hand lamination	EU 80.1800.1-A	EU 80.2000-1
Vacuum infusion	(On request)	(On request)

GENERAL

Rotor diameter (approx.) (m)	80	80
Rated power (kW)	2000	2000
Power control	Pitch	Pitch
Nominal wind speed (m/s)	11.6	11.4
Nominal tip speed (m/s)	75	75
Materials	Glass/Epoxy	Glass/Epoxy
Mass (t)	6.60	7.45

AERODYNAMICS

Airfoils	EUROS, DU, NACA64	EUROS, DU, NACA64
Design tip speed ratio	7.6	7.3
Max. power coefficient	0.50	0.50

GEOMETRY

Blade length (m)	39.00	39.00
Max. Chord (m)	3.08	3.09
Twist (deg)	11.5	14.8
Blade area (m ²)	82.0	84.5

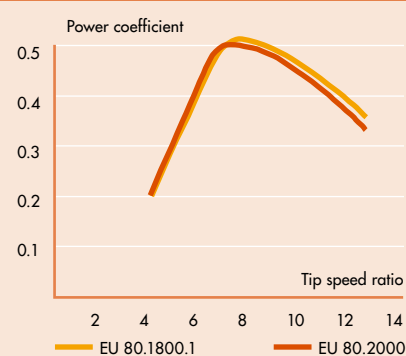
MOUNTING

Mounting diameter (mm)	1800	2000
No. of bolts	54	54
Bolt size	M30	M30

MISCELLANEOUS

Lightning protection	Aluminum receptor	Aluminum receptor
Erosion protection	PU-foil	PU-foil

POWER CURVE



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Blades and more ...



Blade family EU 70 | 80 | 90

BLADE TYPE

Hand lamination

Vacuum infusion EU 70.1800.3-A EU 76.1800.3-A

GENERAL

Rotor diameter (approx.) (m)	70	76
Rated power (kW)	1700	1700
Power control	Pitch	Pitch
Nominal wind speed (m/s)	11.8	11.3
Nominal tip speed (m/s)	75	75
Materials	Glass/Epoxy	Glass/Epoxy
Mass (t)	5.35*	5.70*

AERODYNAMICS

Airfoils	EUROS, DU, NACA64	EUROS, DU, NACA64
Design tip speed ratio	6.8	7.4
Max. power coefficient	0.50	0.50

GEOMETRY

Blade length (m)	34.00	37.00
Max. Chord (m)	3.08	3.08
Twist (deg)	10.5	10.9
Blade area (m ²)	73.0	76.5

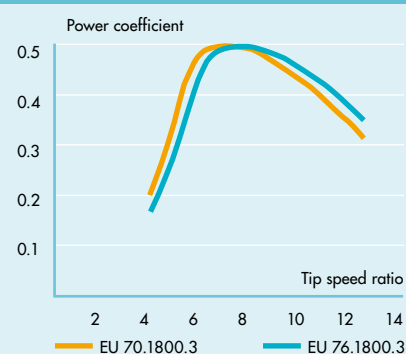
MOUNTING

Mounting diameter (mm)	1800	1800
No. of bolts	54	54
Bolt size	M30	M30

MISCELLANEOUS

Lightning protection	Aluminum receptor	Aluminum receptor
Erosion protection	PU-foil	PU-foil

POWER CURVE



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Blades and more ...

* Design Value



Blade family EU 70 | 80 | 90

BLADE TYPE

Hand lamination

Vacuum infusion EU 80.1800.3-A EU 84.1800.3-A

GENERAL

Rotor diameter (approx.) (m)	80	84
Rated power (kW)	1700	1700
Power control	Pitch	Pitch
Nominal wind speed (m/s)	10.9	10.6
Nominal tip speed (m/s)	75	75
Materials	Glass/Epoxy	Glass/Epoxy
Mass (t)	6.05*	6.55*

AERODYNAMICS

Airfoils	EUROS, DU, NACA64	EUROS, DU, NACA64
Design tip speed ratio	7.7	8.1
Max. power coefficient	0.50	0.50

GEOMETRY

Blade length (m)	39.00	41.00
Max. Chord (m)	3.08	3.08
Twist (deg)	11.2	11.2
Blade area (m ²)	78.5	81.0

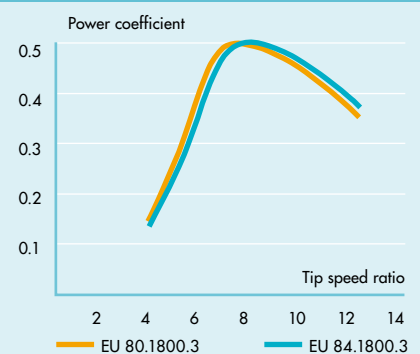
MOUNTING

Mounting diameter (mm)	1800	1800
No. of bolts	54	54
Bolt size	M30	M30

MISCELLANEOUS

Lightning protection	Aluminum receptor	Aluminum receptor
Erosion protection	PU-foil	PU-foil

POWER CURVE



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Blades and more ...

* Design Value



Blade family EU 70 | 80 | 90

BLADE TYPE

Hand lamination

Vacuum infusion EU 76.2110.3-A EU 82.2110.3-A

GENERAL

Rotor diameter (approx.) (m)	76	82
Rated power (kW)	2000	2000
Power control	Pitch	Pitch
Nominal wind speed (m/s)	11.9	11.3
Nominal tip speed (m/s)	75	75
Materials	Glass/Epoxy	Glass/Epoxy
Mass (t)	6.40*	6.75*

AERODYNAMICS

Airfoils	EUROS, DU, NACA64	EUROS, DU, NACA64
Design tip speed ratio	6.8	7.3
Max. power coefficient	0.49	0.49

GEOMETRY

Blade length (m)	36.80	39.80
Max. Chord (m)	3.11	3.11
Twist (deg)	11.6	12.0
Blade area (m ²)	81.5	85.1

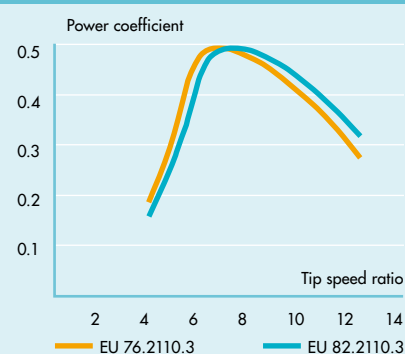
MOUNTING

Mounting diameter (mm)	2000/2110	2000/2110
No. of bolts	60/64	60/64
Bolt size	M30**	M30**

MISCELLANEOUS

Lightning protection	Aluminum receptor	Aluminum receptor
Erosion protection	PU-foil	PU-foil

POWER CURVE



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Blades and more ...

* Design Value

** to be determined



Blade family EU 70 | 80 | 90

BLADE TYPE

Hand lamination

Vacuum infusion EU 86.2110.3-A EU 90.2110.3-A

GENERAL

Rotor diameter (approx.) (m)	86	90
Rated power (kW)	2000	2000
Power control	Pitch	Pitch
Nominal wind speed (m/s)	11.1	10.8
Nominal tip speed (m/s)	75	75
Materials	Glass/Epoxy	Glass/Epoxy
Mass (t)	7.10*	7.65*

AERODYNAMICS

Airfoils	EUROS, DU, NACA64	EUROS, DU, NACA64
Design tip speed ratio	7.8	8.1
Max. power coefficient	0.49	0.49

GEOMETRY

Blade length (m)	41.80	43.80
Max. Chord (m)	3.11	3.11
Twist (deg)	12.3	12.3
Blade area (m ²)	87.1	89.6

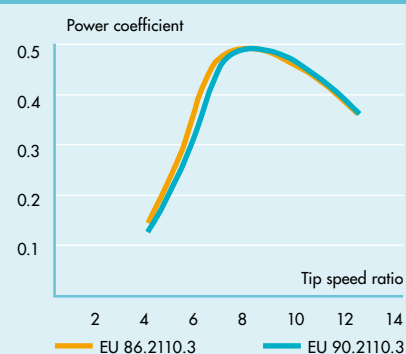
MOUNTING

Mounting diameter (mm)	2000/2110	2000/2110
No. of bolts	60/64	60/64
Bolt size	M30**	M30**

MISCELLANEOUS

Lightning protection	Aluminum receptor	Aluminum receptor
Erosion protection	PU-foil	PU-foil

POWER CURVE



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Blades and more ...

* Design Value

** to be determined



Blade family EU 90 | 100

BLADE TYPE

Hand lamination	EU 90.2300-2	EU 100.2300-B
Vacuum infusion	EU 90.2300.4-D	EU 100.2300.4-D

GENERAL

Rotor diameter (approx.) (m)	90	100
Rated power (kW)	3000	3000
Power control	Pitch	Pitch
Nominal wind speed (m/s)	12.6	12.3
Nominal tip speed (m/s)	75	75
Materials	Glass/Epoxy	Glass/Epoxy
Mass (t)	11.2	12.2

AERODYNAMICS

Airfoils	EUROS, DU, NACA64	EUROS, DU, NACA64
Design tip speed ratio	7.3	8.2
Max. power coefficient	0.51	0.51

GEOMETRY

Blade length (m)	44.00	48.80
Max. Chord (m)	4.15	4.15
Twist (deg)	16.1	15.8
Blade area (m ²)	113.8	120.1

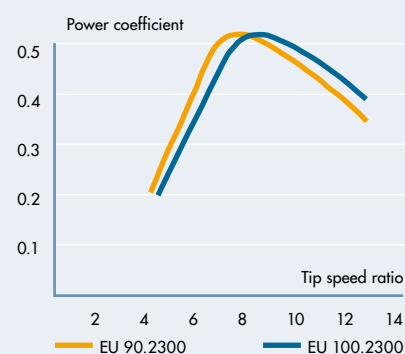
MOUNTING

Mounting diameter (mm)	2300	2300
No. of bolts	64	64
Bolt size	M36	M36

MISCELLANEOUS

Lightning protection	Aluminum receptor	Aluminum receptor
Erosion protection	PU-foil	PU-foil

POWER CURVE



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Blades and more ...



Blade family EU 100 | EU110 | 120

BLADE TYPE

Hand lamination

Vacuum infusion

EU 116.2300.5-A

EU 120.2500.5-A

GENERAL

		EU 116.2300.5-A	EU 120.2500.5-A
Rotor diameter (approx.)	(m)	116	120
Rated power	(kW)	3000	3000
Power control		Pitch	Pitch
Nominal wind speed	(m/s)	10.3	10.1
Nominal tip speed	(m/s)	76*	76*
Materials		Glass/Epoxy	Glass/Epoxy
Mass	(t)	13.3*	14.4*

AERODYNAMICS

		EU 116.2300.5-A	EU 120.2500.5-A
Airfoils		Delft, Euros-Flatback	Delft, Euros-Flatback
Design tip speed ratio		8.9	9.1
Max. power coefficient		0.492	0.489
Capacity factor**		0.457	0.469

GEOMETRY

		EU 116.2300.5-A	EU 120.2500.5-A
Blade length	(m)	56.8	58.8
Max. chord	(m)	4.25	4.25
Blade area (planform)	(m ²)	142.1	149.7

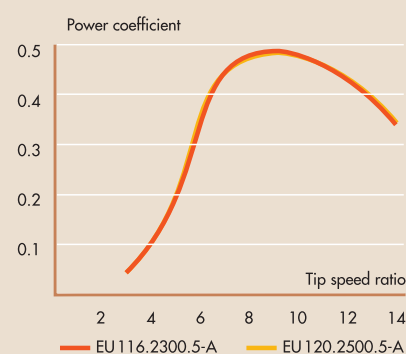
MOUNTING

		EU 116.2300.5-A	EU 120.2500.5-A
Mounting diameter	(mm)	2300	2500
No. of bolts		64	72*
Bolt size		M36	M36

MISCELLANEOUS

		EU 116.2300.5-A	EU 120.2500.5-A
Lightning protection		Aluminum receptor	Aluminum receptor
Erosion protection		PU-foil	PU-foil

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** drive train eff. = 92%; avg. wind speed = 7.5m/s (TC III and Rayleigh distribution)