Wind Generators
Stormy Wings

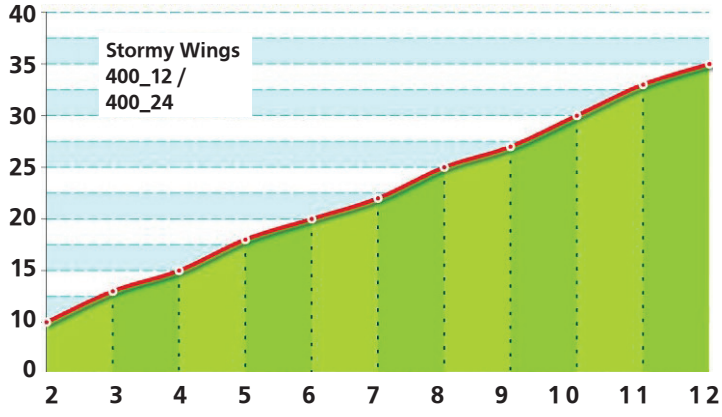
Wind Generator Stormy Wings. These wind generators are perfect for the use in stand-alone systems or combined with solar panels and/or hydro power. External hybrid-controller will combine wind and PV power to increase efficiency by reducing the system costs. 5 blade design with true symmetrical and twisted aerodynamic design which ensures maximum power from low wind speed and operates in low noise and minimal vibration. This concept is also using advanced electromagnetic and blade aerodynamics braking to increase reliability and safety. Patented rotor is made of high quality stainless steel rotor shaft attached with permanent neodymium magnet, the unique winding and multi pole design reduces the start-up torque. Encapsulated SKF-bearing and coated parts guarantees a long lifetime and low maintenance.

Technical Data	Stormy Wings 400-12	Stormy Wings 400-24	Stormy Wings 600-24	Stormy Wings 600-48	Stormy Wings 1000-24	Stormy Wings 1000-48
Rated Output	400 W	400 W	600 W	600 W	1.000 W	1.000 W
Peak Output	500 W	500 W	750 W	750 W	1.200 W	1.200 W
Rotor Diameter	1,55 m	1,55 m	1,75 m	1,75 m	1,96 m	1,96 m
Rated Voltage	12 VDC	24 VDC	24 VDC	48 VDC	24 VDC	48 VDC
Cut-in Speed	2,5 m/s					
Rated Wind Speed	12 m/s					
Power Coeffizient	0,36					
Rated Charging Current	33,3 A	16,7 A	25 A	12,5 A	41,7 A	20,8 A
Working Temperature Range	- 40°C ... + 60 °C					
Survival Max. Wind	50 m/s					
Weight	22 kg	22 kg	25 kg	25 kg	28 kg	28 kg
Over-Speed Control	Electromagnetic & blade aerodynamic braking					
Number of blades	5					
Blade Material	Reinforced nylon glass-fiber					
Generator Type	Brushless 3-phase with permanent Neodymium Magnet					
Bearing	SKF					
Package Size	118 x 46 x 26 cm		126 x 520 x 250 cm		146 x 530 x 270 cm	
Tower Connection	Flange connection or bolt-on clamp					
Certificate	ISO9001:2008, CE, RoHS, ETL					
Article No.	**310125**	**310126**	**310127**	**310128**	**310129**	**310130**

Phaesun GmbH · Brühlweg 9 · 87700 Memmingen · Germany | Phone +49 (8331) 990 42 0 · Fax +49 (8331) 990 42 12 | info@phaesun.com · www.phaesun.com

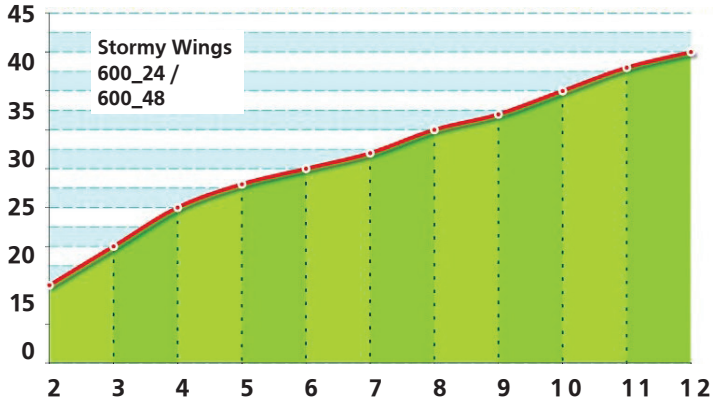
Wind Generators
Stormy Wings

Wind Turbine Noise output Evaluation on Stormy Wings 400_12 / 400_24
Standard Air Density (1.225 kg / m^3)



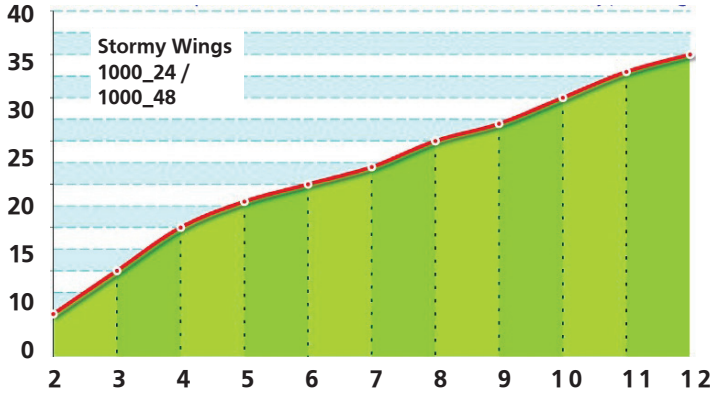
Wind Speed (m/s)	Normal Noise Operation Level (dBa)
2	10
3	8
4	10
5	13
6	15
7	17
8	20
9	22
10	25
11	28
12	30

Wind Turbine Noise output Evaluation on Stormy Wings 600_24 / 600_48
Standard Air Density (1.225 kg / m^3)



Wind Speed (m/s)	Normal Noise Operation Level (dBa)
2	15
3	20
4	23
5	25
6	27
7	30
8	32
9	35
10	38
11	40
12	45

Wind Turbine Noise output Evaluation on Stormy Wings 1000_24 / 1000_48
Standard Air Density (1.225 kg / m^3)



Wind Speed (m/s)	Normal Noise Operation Level (dBa)
2	10
3	15
4	18
5	20
6	22
7	25
8	27
9	30
10	33
11	35
12	40

Phaesun GmbH · Brühlweg 9 · 87700 Memmingen · Germany | Phone +49 (8331) 990 42 0 · Fax +49 (8331) 990 42 12 | info@phaesun.com · www.phaesun.com