BUNNERFLY

WIND POWER CONVERTER (WIND GENERATOR)

GREEK TECHNOLOGY

HORIZONTAL AXIS, DOWNWIND, VARIABLE SPEED OPERATION, WITH INTEGRATED ROTOR BLADES AND ELECTRIC GENERATOR, GEARLESS DRIVE TRAIN



Generator:

Multipole Permanent Magnet, Low Speed

Nacelle:

Cast Aluminium

Blades:

Carbon epoxy

Yaw System:

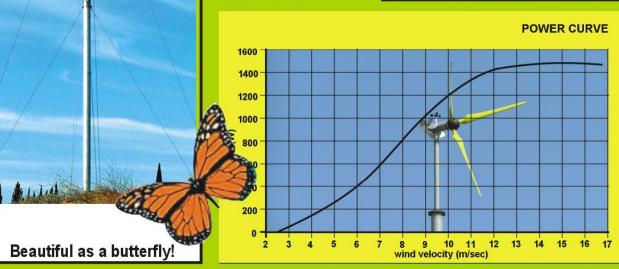
Via lateral propeller aerodynamic driven

Output Voltage:

12, 24, 48 VDC / 230 / 50 Hz



In the storm, BF uses the additional power of the wind for its protection, with the reduction of the swept area



DIEGOTE GESACH AND DEVELOPMENT OF RENEWABLE ENERGY SYSTEMS Office Address: 602a Vouliagmenis Ave / 164 52 Argiroupoli / Athens Greece Postal Address: PO Box 72 509 / 164 01 Argiroupoli / Athens Greece Email: wind@energotech.gr * Web: www.energotech.gr Tel: +30 210 9959021 Fax: +30 210 9959022

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GREEK TECHNOLOGY

TECHNICAL SPECIFICATIONS

TYPE:			HORIZONTAL AXIS, DOWNWIND, VARIABLE SPEED OPERATION, WITH INTEGRATED ROTOR BLADES AND ELECTRIC GENERATOR, GEARLESS DRIVE TRAIN			
MODEL			BFIK	BF 3K	BF 6K	
RO	TOR					
•	Dian	neter / no of blades	3,0 m/3 (three)	4,3 m/3 (three)	4,6 m/3 (three)	
•	•	Blade / hub material		Carbon epoxy / inox steel		
•	•	Rated wind speed of rotation (rpm)	Variable of 30 – 800 rpm	Variable of 30 – 600 rpm		
•	•	Cut in wind speed (m/sec)		3 m/sec		
Ŀ	•	Power control	Active fluctuation of the surface through wind pressure, controlled by gas sprint piston			
	•	Axis divergence (tilt)	0° from Horizontal level	4º from Horizontal level		
GENERATOR						
Ŀ	•	Туре	energotech bf, synchronous, multi-pole, permanent neodymium magnet, variable speed			
•	•	Phases / Rotations		3 phases / 30 – 600 rpm		
	•	Voltage per phase	10 – 50 VAC 20 – 80 VAC			
•	•	Insulation class		IP 23		
•	•	Maximum power	1,5 kW	3,5 kW	7 kW	
YAW SYSTEM						
	•	Туре	Active, controlled in aerodynamic way through lateral blades and a reduced gear			
AUTOMATIC STOP						
Type Electromagnetic through the electric field of the wind generator the indicator panel.				enerator, controlled through		
TOWER						
•	•	Description	It consists of two parts & 75 mm for BF 1K and & 180 mm for BF 3K & BF 6K, hot dip galvanizing, total height 12 m, based on the ground with 8 guywires with possibility of restoration.			
CONTROL						
	•	Description	The produced current is led to a rectifying device where is turned into DC current. To the constant and stabilized current we connect the automatic control battery charger with wide range voltage input (10 – 125 VDC) 12, 24 $\acute{\eta}$ 48 V and the inverter with output 230/50 Hz for connection to the grid or stand-alone operation. Farther details are following			

