Falcon Series

Vertical Axis Wind Turbines

WEPOWER™



Falcon

WePOWER is about change...

About providing a greener tomorrow...

About enabling communities, businesses and individuals to harness the power of wind as a source of natural, free, clean and renewable energy.

- *On Grid Units Eligible for 30% Federal + State and Utility Incentives/Rebates** Details at Department of Energy: www.dsireusa.org
- Reduces Fossil Fuel Emissions and Carbon Footprint
- Aesthetically and Architecturally Pleasing
- Environmentally Friendly - Bird Safe, No Hazardous Fluids
- Few Moving Parts
- Extremely Quiet (Nearly Silent and Vibration Free)
- Captures Wind From any Direction
- Turbine Design Operates More Efficiently at Low Wind Speeds
- Generator Matched to Maximize Power from Low Wind Speeds
- Engineered to Last 20 years
- Virtually No Maintenance
- 5-Year Limited Warranty

www.WEPOWER.us
sales@wepower.us
866 385-WIND (9463)

32 JOURNEY SUITE 250
ALISO VIEJO, CA 92656

The information contained herein may change without notice. Individual performance results may vary. *Subject to applicable regulations, restrictions and requirements.
© 2010 WePOWER, LLC. All rights reserved.

Falcon 600W

Vertical Axis Wind Turbine (VAWT)

WEPOWER™







Suitable for any Application; Urban to Rural, Residential to Commercial, Industrial to Institutional

TECHNICAL SPECIFICATIONS :

Performance

Instantaneous Rated Power	600W*
Rated Wind Speed	29 mph (13 m/s)
Cut-In Speed	6 mph (2.7 m/s)
Maximum Wind Speed	111 mph (49.6 m/s)

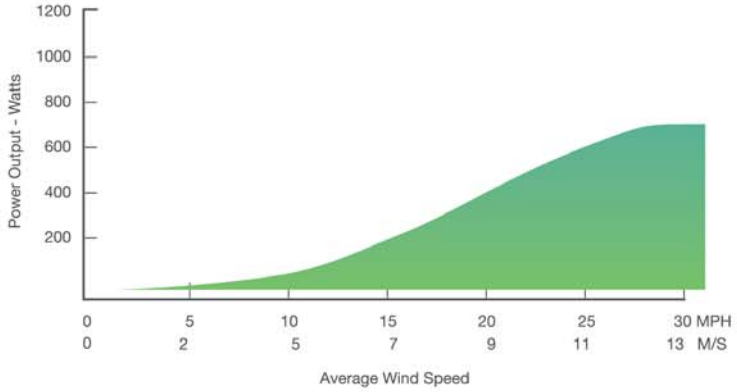
Annual Energy Production

Assuming Wind Capture 10-40% of the Time at Rated Speed: 525 kWh - 2,100 kWh Annually*

Physical Parameters

Size	5'5" (1.3m) Rotor Diameter X 3'3" (1m) Blade Length
Tower Height	18' (5.5m)
Gross Weight	194 lbs (88 kg) Excluding Tower

600W Power Curve



Noise Level

15 mph (6.7 m/s) @ 9' distance (3m)	32 dB

Output Controller

Output Voltage (DC)	24V DC (Off Grid)
Output Voltage (DC)	200-400V DC (Grid Connected)

Generator

Type	Permanent Magnet Direct Drive
Rated Temperature	-40°F to 239°F (-40°C to 115°C)

Grid Connected Inverter (CSA listed to UL 1741)

Output (AC)	200~400 AC

The grid connected inverter is supplied to meet local grid specifications.

Electronic Overspeed Protection

Governed Speed Style	Electronic Dump Load
Secondary Brake	Mechanical Drum

Represented by:

www.WEPOWER.us
sales@wepower.us
866 385-WIND (9463)

32 JOURNEY SUITE 250
ALISO VIEJO, CA 92656

The information contained herein may change without notice. *Individual performance results may vary. © 2010 WePOWER, LLC. All rights reserved.

Falcon 1.2 kW

Off Grid Vertical Axis Wind Turbine

WEPOWER™

Suitable for Off Grid, Rural, and Agricultural Applications







TECHNICAL SPECIFICATIONS

Performance

Instantaneous Rated Power	1.2kW*
Rated Wind Speed	29 mph (13 m/s)
Cut-In Speed	6 mph (2.7 m/s)
Maximum Wind Speed	111 mph (49.6 m/s)

Annual Energy Production

Assuming Wind Capture 10-40% of the Time at Rated Speed	1,051 kWh - 4,200 kWh Annually*

Physical Parameters

Size	5'10" (1.78m) Rotor Diameter X 6'7" (2m) Blade Length
Tower Height	18' (5.5m)
Gross Weight	350 lbs (160 kg) Excluding Tower

Noise Level

15 mph (6.7 m/s) @ 9' distance (3m)	32 dB

Output Controller

Output Voltage (DC)	48V DC (Off Grid)

Generator

Type	Permanent Magnet Direct Drive
Rated Temperature	-40°F to 239°F (-40°C to 115°C)

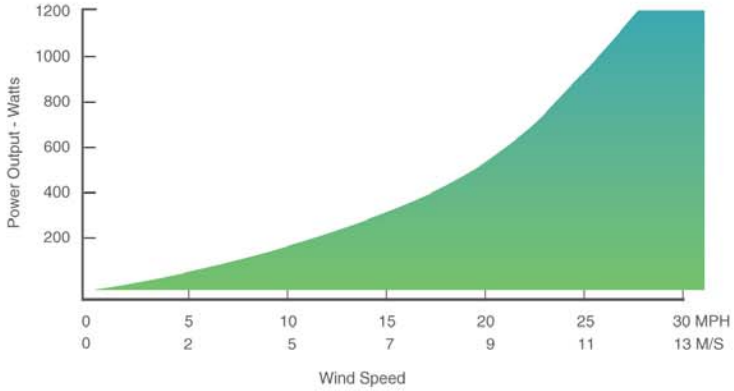
Electronic Overspeed Protection

Governed Speed Style	Automatic Aerodynamic Variable Pitch
Secondary Brake	Automatic Electromagnetic

Poles

18'	Standard
30'	Upgrade

1.2kW Power Curve



Represented by:

www.WEPOWER.us
sales@wepower.us
866 385-WIND (9463)

32 JOURNEY SUITE 250
ALISO VIEJO, CA 92656

The information contained herein may change without notice. *Individual performance results may vary. © 2010 WePOWER, LLC. All rights reserved.

Falcon 3.4kW

Vertical Axis Wind Turbine

WEPOWER™

Grid Equipped • Eligible for State and Federal Rebates and Incentives • Qualifies for Net Metering





Suitable for any Application; Urban to Rural, Residential to Commercial, Industrial to Institutional

TECHNICAL SPECIFICATIONS

Performance

Instantaneous Rated Power	3.4kW*
Rated Wind Speed	29 mph (13 m/s)
Cut-In Speed	6 mph (2.7 m/s)
Maximum Wind Speed	111 mph (49.6 m/s)

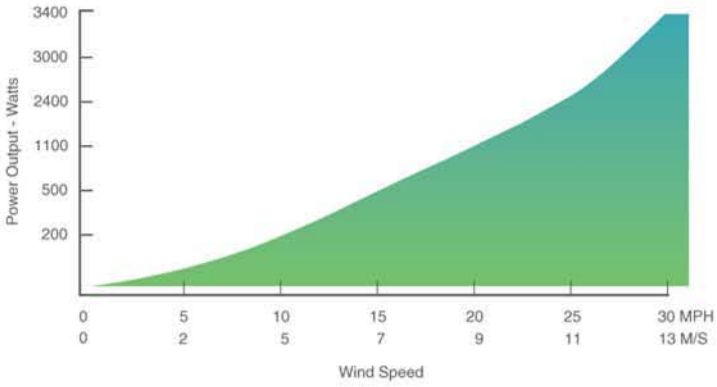
Annual Energy Production

Assuming Wind Capture 10-40% of the Time at Rated Speed	2,978 kWh - 11,900 kWh Annually*

Physical Parameters

Size	9'10" (3m) Rotor Diameter X 11'10" (3.6m) Blade Length
Tower Height	18' (5.5m)
Gross Weight	1,393 lbs (633 kg) Excluding Tower

3.4kW Power Curve



Noise Level

15 mph (6.7 m/s) @ 9' distance (3m)	32 dB

Output Controller

Output Voltage (DC)	110~400V DC (Grid Connected)

Generator

Type	Permanent Magnet Direct Drive
Rated Temperature	-40°F to 239°F (-40°C to 115°C)

Grid Connected Inverter (CSA listed to UL 1741)

Output (AC)	208~277 VAC

The grid connected inverter is supplied to meet local grid specifications.

Electronic Overspeed Protection

Governed Speed Style	Automatic Aerodynamic Variable Pitch
Secondary Brake	Automatic Electromagnetic

Poles

18'	Standard
30'	Upgrade

Represented by:

www.WEPOWER.us
sales@wepower.us
866 385-WIND (9463)

32 JOURNEY SUITE 250
ALISO VIEJO, CA 92656

The information contained herein may change without notice. *Individual performance results may vary. © 2010 WePOWER, LLC. All rights reserved.

Falcon 5.5kW

Vertical Axis Wind Turbine

WEPOWER™

Grid Equipped • Eligible for State and Federal Rebates and Incentives • Qualifies for Net Metering





Suitable for any Application; Urban to Rural, Residential to Commercial, Industrial to Institutional

TECHNICAL SPECIFICATIONS

Performance

Instantaneous Rated Power	5.5kW*
Rated Wind Speed	29 mph (13 m/s)
Cut-In Speed	6 mph (2.7 m/s)
Maximum Wind Speed	111 mph (49.6 m/s)

Annual Energy Production

Assuming Wind Capture 10-40% of the Time at Rated Speed	4,818 kWh - 19,270 kWh Annually*

Physical Parameters

Size	13'1" (4m) Rotor Diameter X 15'1" (4.6m) Blade Length
Tower Height	18' (5.5m)
Gross Weight	2,167 lbs (985 kg) Excluding Tower

Noise Level

15 mph (6.7 m/s) @ 9' distance (3m)	32 dB

Output Controller

Output Voltage (DC)	90 - 340V AC (Grid Connected)

Generator

Type	Permanent Magnet Direct Drive
Rated Temperature	-40°F to 239°F (-40°C to 115°C)

Grid Connected Inverter (CSA listed to UL 1741)

Output (AC)	208~277V AC

The grid connected inverter is supplied to meet local grid specifications.

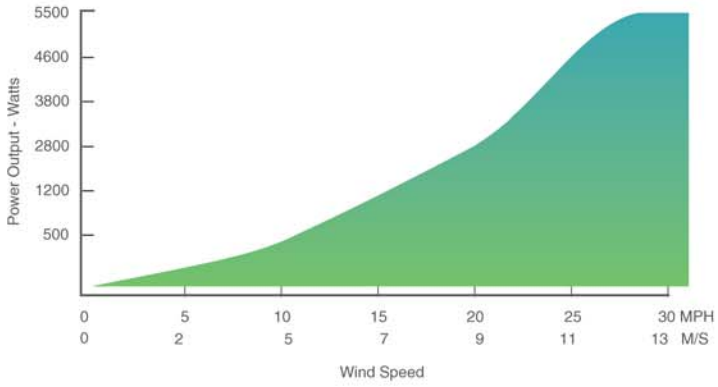
Electronic Overspeed Protection

Governed Speed Style	Automatic Aerodynamic Variable Pitch
Secondary Brake	Automatic Electromagnetic

Poles

18'	Standard
30'	Upgrade

5.5kW Power Curve



Represented by:

www.WEPOWER.us
sales@wepower.us
866 385-WIND (9463)

32 JOURNEY SUITE 250
ALISO VIEJO, CA 92656

The information contained herein may change without notice. *Individual performance results may vary. © 2010 WePOWER, LLC. All rights reserved.

Falcon 12kW

Vertical Axis Wind Turbine

WEPOWER™







Suitable for any Application; Urban to Rural, Residential to Commercial, Industrial to Institutional

TECHNICAL SPECIFICATIONS

Performance

Instantaneous Rated Power	12kW*
Rated Wind Speed	29 mph (13 m/s)
Cut-In Speed	6 mph (2.7 m/s)
Maximum Wind Speed	111 mph (49.6 m/s)

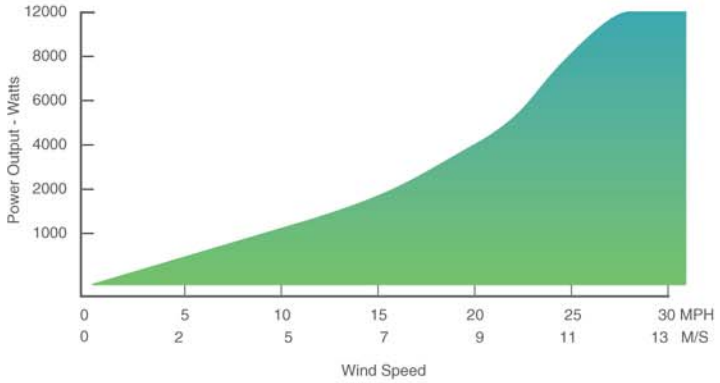
Annual Energy Production

Assuming Wind Capture 10-40% of the Time at Rated Speed	10,512 kWh - 42,000 kWh Annually*

Physical Parameters

Size	19'8" (6m) Rotor Diameter X 20'4" (6.2 m) Blade Length
Tower Height	18' (5.5m)
Gross Weight	4,190 lbs (1905 kg) Excluding Tower

12kW Power Curve



Noise Level

15 mph (6.7 m/s) @ 9' distance (3m)	32 dB

Output Controller

Output Voltage (DC)	90 - 340V AC (Grid Connected)

Generator

Type	Permanent Magnet Direct Drive
Rated Temperature	-40°F to 239°F (-40°C to 115°C)

Grid Connected Inverter (CSA listed to UL 1741)

Output (AC)	208~277V AC

The grid connected inverter is supplied to meet local grid specifications.

Electronic Overspeed Protection

Governed Speed Style	Automatic Aerodynamic Variable Pitch
Secondary Brake	Automatic Electromagnetic

Poles

18'	Standard
30'	Upgrade

Represented by:

www.WEPOWER.us
sales@wepower.us
866 385-WIND (9463)

32 JOURNEY SUITE 250
ALISO VIEJO, CA 92656

The information contained herein may change without notice. *Individual performance results may vary. © 2010 WePOWER, LLC. All rights reserved.

Falcon Series

Vertical Axis Wind Turbines

WEPOWER™

TECHNICAL SPECIFICATIONS	FALCON MODELS				
	600W	1.2kW	3.4kW	5.5kW	12kW
Grid Tie	Off Grid	Off Grid	On Grid	On Grid	On Grid
Annual Energy Production					
Assuming Wind Capture 10-40% of the Time at Rated Speed	525 kWh - 2,100 kWh Annually*	1,051 kWh - 4,200 kWh Annually*	2,978 kWh - 11,912 kWh Annually*	4,818 kWh - 19,270 kWh Annually*	10,512 kWh - 42,000 kWh Annually*
Performance					
Instantaneous Rated Power	600W*	1.2kW*	3.4kW*	5.5kW*	12kW*
Rated Wind Speed	29 mph (13 m/s)	29 mph (13 m/s)	29 mph (13 m/s)	29 mph (13 m/s)	29 mph (13 m/s)
Cut-In Speed	6 mph (2.7 m/s)	6 mph (2.7 m/s)	6 mph (2.7 m/s)	6 mph (2.7 m/s)	6 mph (2.7 m/s)
Maximum Wind Speed	111 mph (49.6 m/s)	111 mph (49.6 m/s)	111 mph (49.6 m/s)	111 mph (49.6 m/s)	111 mph (49.6 m/s)
Physical Parameters					
Size Rotor Diameter X Blade Length	5'5" (1.3m) X 3'3" (1m)	5'10" (1.78m) X 6'7" (2m)	9'10" (3m) X 11'10" (3.6m)	13'1" (4m) X 15'1" (4.6m)	19'8" (6m) X 20'4" (6.2 m)
Tower Height	18' (5.5m)	18' (5.5m)	18' (5.5m)	18' (5.5m)	18' (5.5m)
Gross Weight Excluding Tower	194 lbs (88 kg)	350 lbs (160 kg)	1,393 lbs (633 kg)	2,167 lbs (985 kg)	4,190 lbs (1905 kg)
Noise Level					
15 mph (6.7 m/s) @ 9' distance (3m)	32 dB	32 dB	32 dB	32 dB	32 dB
Output Controller					
Output Voltage (Off Grid)	24V DC	48V DC			
Output Voltage (On Grid)			110 - 400V AC	90~340V DC	90~340V DC
Generator					
Type	Permanent Magnet Direct Drive	Permanent Magnet Direct Drive	Permanent Magnet Direct Drive	Permanent Magnet Direct Drive	Permanent Magnet Direct Drive
Rated Temperature	-40°F to 239°F (-40°C to 115°C)	-40°F to 239°F (-40°C to 115°C)	-40°F to 239°F (-40°C to 115°C)	-40°F to 239°F (-40°C to 115°C)	-40°F to 239°F (-40°C to 115°C)
Grid Connected Inverter					
Output (AC) The grid connected inverter is supplied to meet local grid specifications.	N/A	N/A	208~277V AC	208~277V AC	208~277V AC
Electronic Overspeed Protection					
Governed Speed Style	Electronic Dump Load	Automatic Aerodynamic Variable Pitch	Automatic Aerodynamic Variable Pitch	Automatic Aerodynamic Variable Pitch	Automatic Aerodynamic Variable Pitch
Secondary Brake	Automatic Electromagnetic	Automatic Electromagnetic	Automatic Electromagnetic	Automatic Electromagnetic	Automatic Electromagnetic

www.WEPOWER.us
sales@wepower.us
866 385-WIND (9463)

32 JOURNEY SUITE 250
ALISO VIEJO, CA 92656

The information contained herein may change without notice. *Individual performance results may vary. © 2010 WePOWER, LLC. All rights reserved.