

Falcon Series

Vertical Axis Wind Turbines (VAWT)

WEPOWER[™]

From Foreign Dependent to
Mother Nature Independent



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.

- **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 Warranty

Falcon VAWT

www.WEPOWER.us

sales@wepower.us

866 385-WIND (9463)

32 JOURNEY SUITE 250
ALISO VIEJO, CA 92656

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

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

Noise Level

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

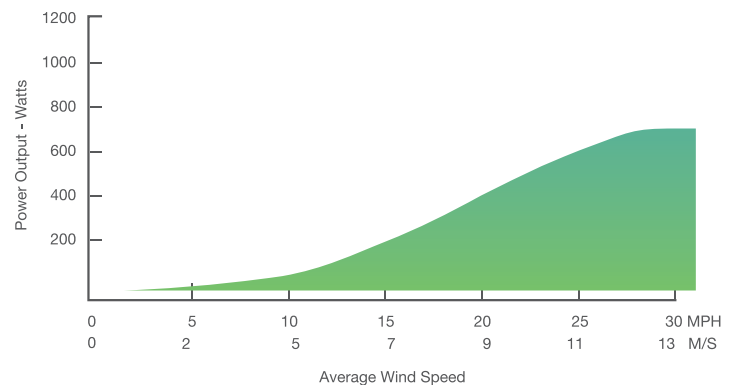
Output (AC)	200~400 AC
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The grid connected inverter is supplied to meet local grid specifications.

Electronic Overspeed Protection

Governed Speed Style	Electronic Dump Load
Secondary Brake	Mechanical Drum

600W Power Curve



Fully Equipped for Grid Connection

Fully Eligible for 30% Federal + State
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Falcon 1.2 kW

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

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
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Output Controller

Output Voltage (DC)	48V DC (Off Grid)
Output Voltage (DC)	150~400V DC (Grid Connected)

Generator

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

Grid Connected Inverter

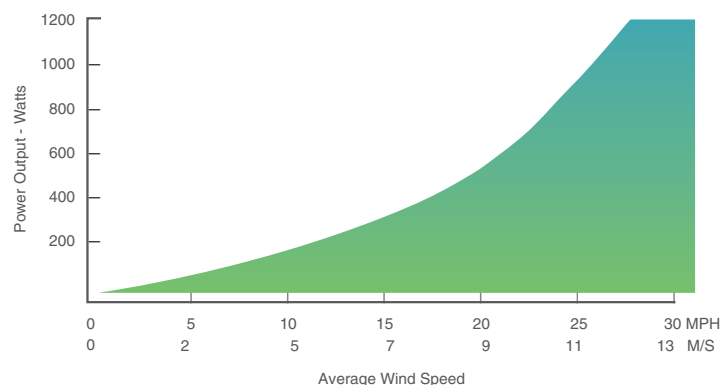
Output (AC)	183~304V AC
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The grid connected inverter is supplied to meet local grid specifications.

Electronic Overspeed Protection

Governed Speed Style	Automatic Aerodynamic Variable Pitch
Secondary Brake	Mechanical Drum

1.2kW Power Curve



Fully Equipped for Grid Connection

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Falcon 3.4kW

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

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

Noise Level

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

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

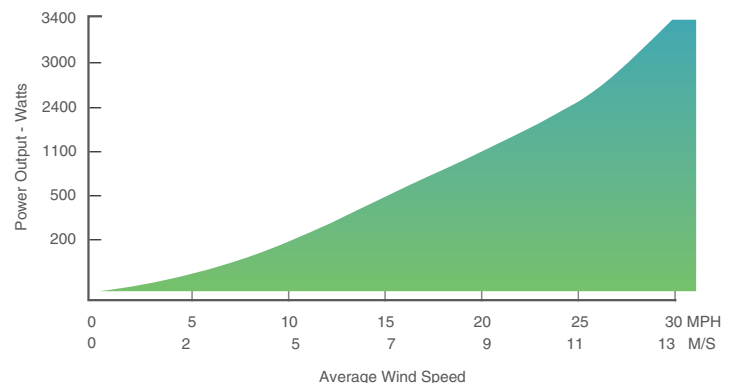
Output (AC)	183~304V AC
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The grid connected inverter is supplied to meet local grid specifications.

Electronic Overspeed Protection

Governed Speed Style	Automatic Aerodynamic Variable Pitch
Secondary Brake	Automatic Electromagnetic

3.4kW Power Curve



Fully Equipped for Grid Connection

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Falcon 5.5kW

Vertical Axis Wind Turbine (VAWT)



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

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
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Output Controller

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

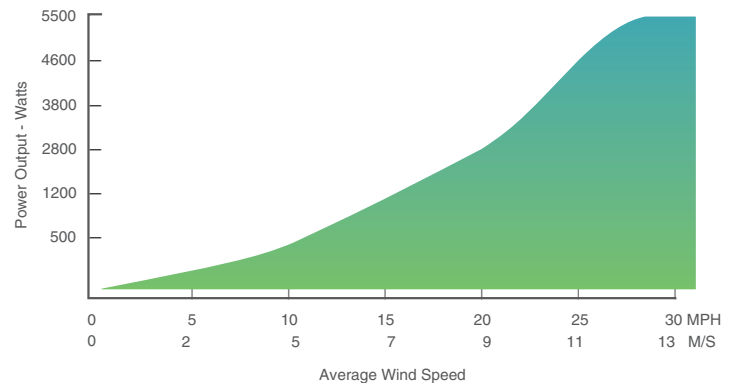
Output (AC)	183~304V AC
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The grid connected inverter is supplied to meet local grid specifications.

Electronic Overspeed Protection

Governed Speed Style	Automatic Aerodynamic Variable Pitch
Secondary Brake	Automatic Electromagnetic

5.5kW Power Curve



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Falcon 12kW

Vertical Axis Wind Turbine (VAWT)



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

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

Noise Level

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

Output Voltage (DC)	48V DC (Off Grid)
Output Voltage (DC)	81~305V DC (Grid Connected)

Generator

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

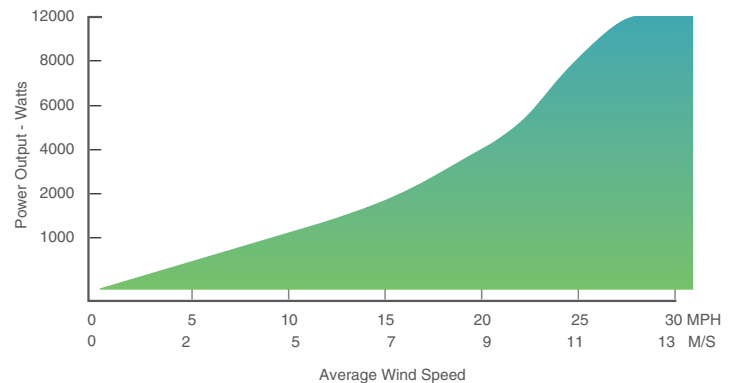
Grid Connected Inverter

Output (AC)	183~304V AC
The grid connected inverter is supplied to meet local grid specifications.	

Electronic Overspeed Protection

Governed Speed Style	Mechanical Brake
Secondary Brake	Mechanical Brake

12kW Power Curve



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Falcon Series

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TECHNICAL SPECIFICATIONS	FALCON MODELS				
	600W	1.2kW	3.4kW	5.5kW	12kW
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	48V DC	48V DC	48V DC
Output Voltage (On Grid)	200~400V DC	150~400V DC	110~400V DC	110~400V DC	81~305V 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)	200~400V DC	183~304 VAC	183~304 VAC	183~304 VAC	183~304 VAC
The grid connected inverter is supplied to meet local grid specifications.					
Electronic Overspeed Protection					
Governed Speed Style	Electronic Dump Load	Automatic Aerodynamic Variable Pitch	Automatic Aerodynamic Variable Pitch	Automatic Aerodynamic Variable Pitch	Manual Brake
Secondary Brake	Automatic Electromagnetic	Automatic Electromagnetic	Automatic Electromagnetic	Automatic Electromagnetic	

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