

# 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)

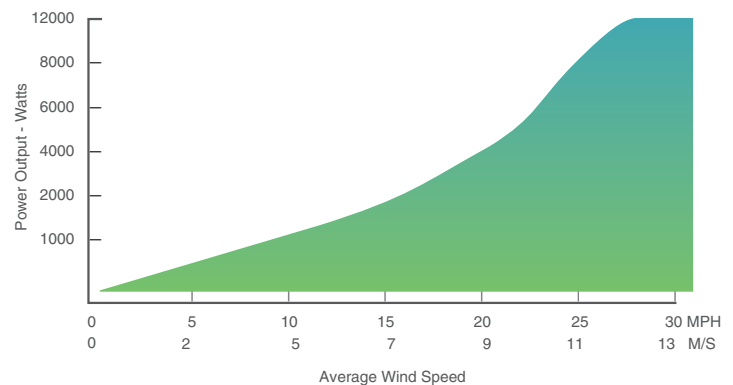
### Grid Connected Inverter

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



**Fully Equipped for Grid Connection**

**Fully Eligible for 30% Federal + State and Utility Incentives/Rebates\*\***

Details at Department of Energy: [www.dsireusa.org](http://www.dsireusa.org)

**Fully Eligible for Utility Company Net Metering**

[www.WEPOWER.us](http://www.WEPOWER.us)  
[sales@wepower.us](mailto:sales@wepower.us)  
 866 385-WIND (9463)

California  
Energy  
Commission



32 JOURNEY SUITE 250  
ALISO VIEJO, CA 92656

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