

Falcon Series

Vertical Axis Wind Turbine (VAWT)

WEPOWER™

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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