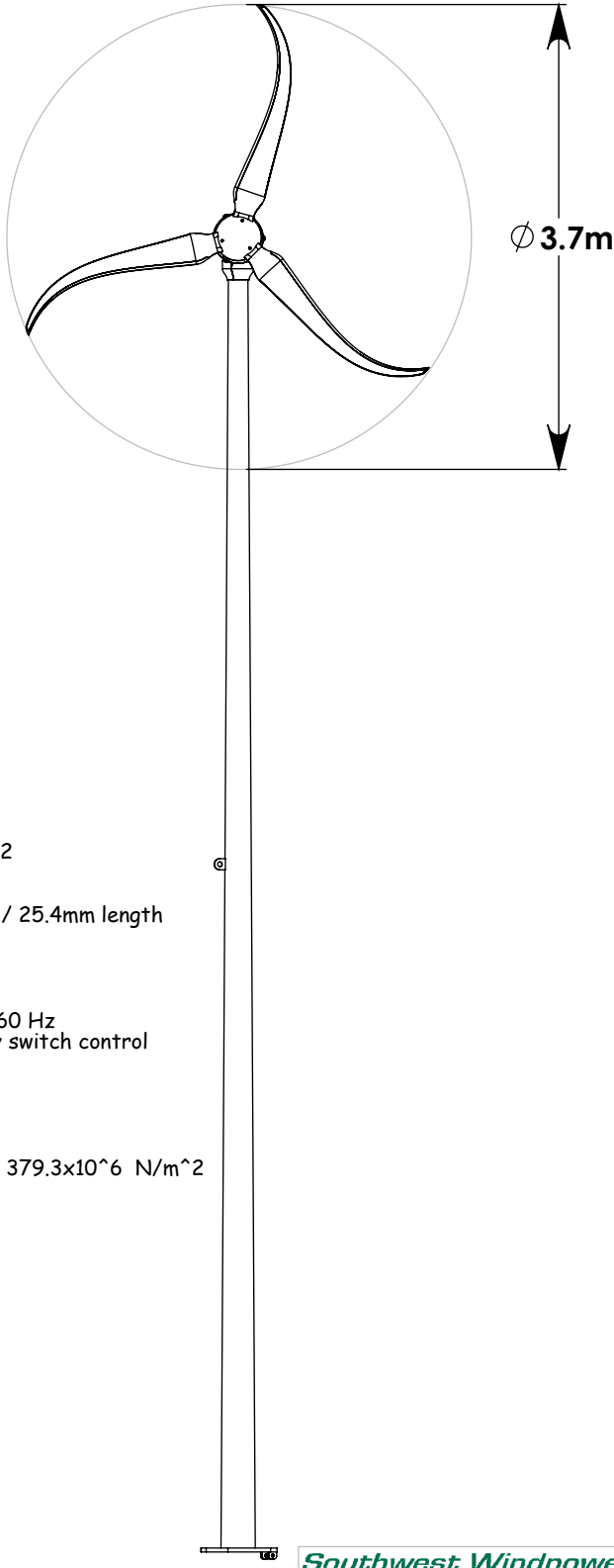
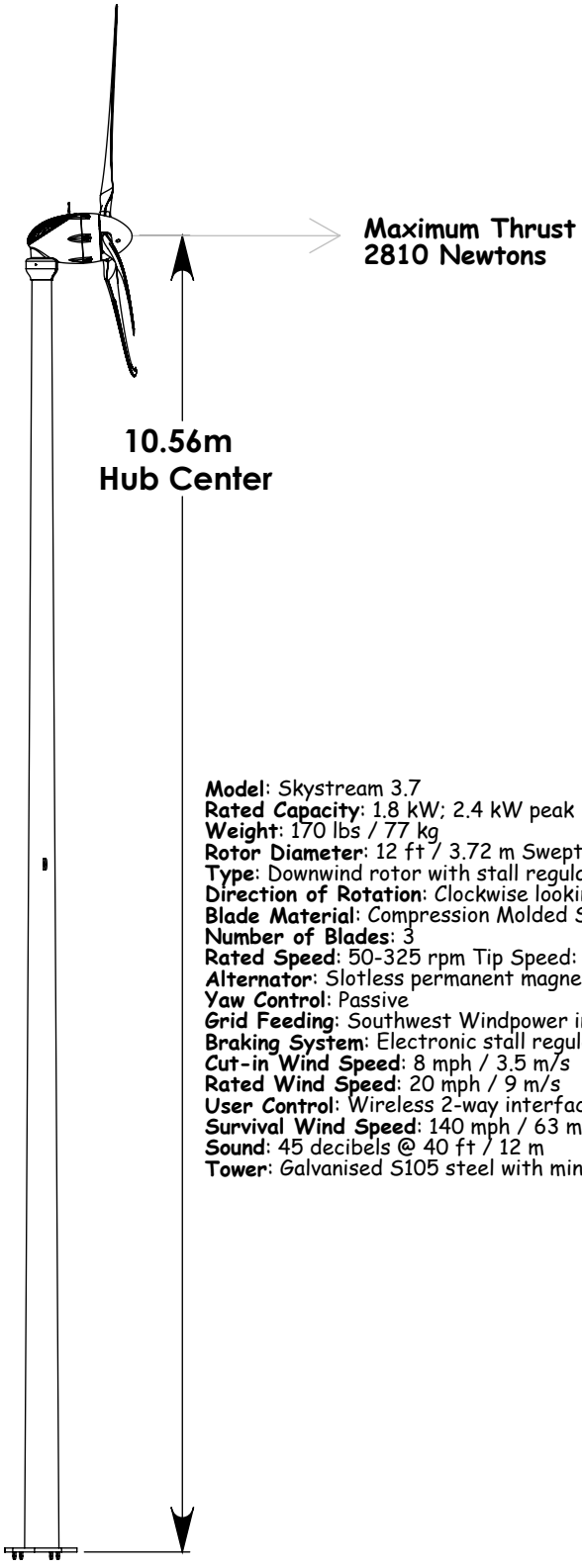


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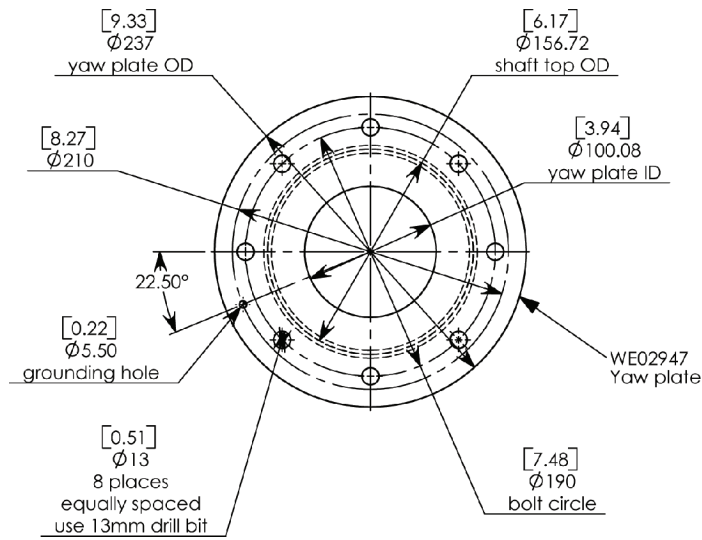
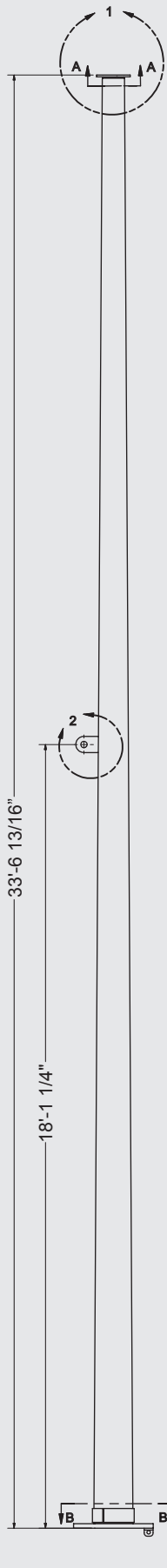
Model: Skystream 3.7
Rated Capacity: 1.8 kW; 2.4 kW peak
Weight: 170 lbs / 77 kg
Rotor Diameter: 12 ft / 3.72 m Swept Area: 115.7 ft² / 10.87 m²
Type: Downwind rotor with stall regulation control
Direction of Rotation: Clockwise looking upwind
Blade Material: Compression Molded SMC w/ 33% Glass fiber 1" / 25.4mm length
Number of Blades: 3
Rated Speed: 50-325 rpm Tip Speed: 66-213 ft/s / 9.7-63 m/s
Alternator: Slotless permanent magnet brushless
Yaw Control: Passive
Grid Feeding: Southwest Windpower inverter 120/240 VAC 50-60 Hz
Braking System: Electronic stall regulation with redundant relay switch control
Cut-in Wind Speed: 8 mph / 3.5 m/s
Rated Wind Speed: 20 mph / 9 m/s
User Control: Wireless 2-way interface remote system
Survival Wind Speed: 140 mph / 63 m/s
Sound: 45 decibels @ 40 ft / 12 m
Tower: Galvanised S105 steel with min. yield strength of 55 ksi / 379.3x10⁶ N/m²

Southwest Windpower
Flagstaff, Arizona U.S.A.

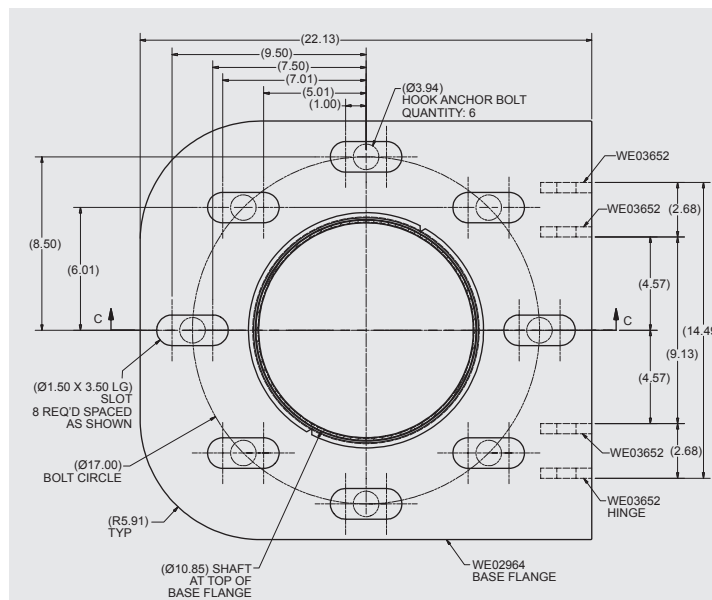
APPROVALS	DATE
DRAWN MGC	6/15/07
CHECKED	
RESP ENG	
MFG ENG	
QUAL ENG	

Skystream 3.7 Wind Turbine with 10.21m Hinged Monopole Tower

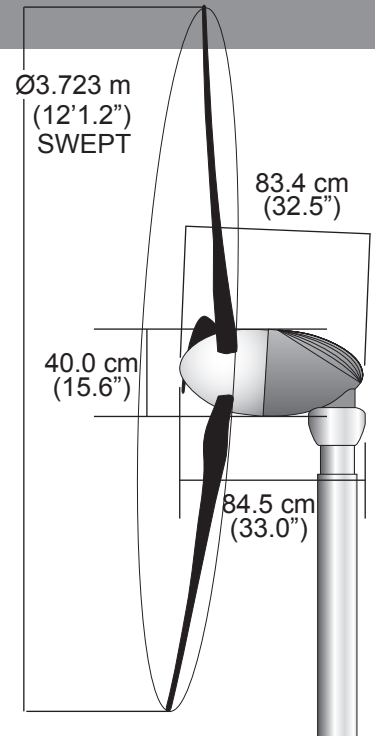
Skystream - 1.8 kW Wind Turbine



Tower Top



Tower Base



Dimensions

Prop Tip to Center of Tower: 780mm/30.7 in.
 Minimum Tip Clearance: 690mm/27.16 in.
 Max Tower Diameter at Tip: 171mm/6.75 in.

Wiring

Recommended Wire:
 90C (UL) Water Resistant or equivalent

Tower & Wind Generator Loading Specifications

Tower:	Freestanding Tapered Tubular Steel with Galvanized Finish
Tower Weight:	549 lbs/249.2 kg
Bottom of Tower Forces	
Center of Gravity:	400mm from center of tower
Axial Force:	3376 N (force due to tower and generator weight)
Overturing Bending Moment:	35611 Nm (includes wind loads)
Shear Force:	3851 N (includes wind loads)
Top of Tower Forces	
Thrust Load:	Average: 704
Design Shear Force:	2802 N (top of tower)
Peak Bending Moment:	1532 Nm
Downward Axial Force:	932 N (top of tower)