7.5kW small wind turbine for high-consumption households, light industry Farms, telecomucation towers, rural electrification, etc.

At locations with 5 – 7 m/s average wind speed the 7.5KW Windspot can produce 32 – 64 Kw daily, approximately 2500W.h.

POWER	7.5Kw @ 200 rpm
ROTOR DIAMETER	6.3 m (19.3 ft)
CUT IN SPEED	3 m/s (6.7 mph)
RATED SPEED	12 m/s (26.8 mph)
WEIGHT	420 kg (925 lb)
TOTAL LENGTH	4 m (13.1 ft)
ESTIMATED ANNUAL PRODUCTION	11900-24200 Kwh at 5-7 m/s (11.2-15.7 mph)
C02 SAVED	7730-15700 kg (17000-34600 lb)
TYPE	Up-wind horizontal rotor
GENERATOR	Synchronous, permanent magnets; 3 phases; 48-110-220 V at 50/60 Hz
YAW CONTROL	Passive system: Tail
POWER CONTROL	Passive Centrifugal Variable Pitch System with Shock Absorber (Patented design)
TRANSMISSION	Direct
BRAKE	Electric
CONTROLLER	On-grid, off-grid, water pumping or hybrid system
BLADES	Polyester resin reinforced with Fiber glass
INVERTER	Efficiency ≈ 95% ; Algorithm MPPT
NOISE	37 dB(A) from 60 m with a wind speed of 8 m/s (65 yd and 18 mph)
ANTICORROSION PROTECTION	Sealed design + e-coat + anodizing + UV resistant paint
TOWER	12, 14 and 18 m (39, 46 and 59 ft); hydraulic and mechanical lay down system
DESIGN	According to IEC61400-2