

MID-SIZED WIND TURBINE
for wind-diesel or
distributed generation
applications



The **Fuhrländer** FL 100 wind turbine is well suited to provide supplementary low cost power to remote diesel generation plants or for on-site power for medium sized schools, factories and farms. Originally designed to provide power under extreme conditions in remote locations, this robust wind turbine is less costly to maintain than others in its class. A dual speed dual wound generator gives the highest efficiency at all wind speeds and the aerodynamic blade tip brakes slow the turbine to a stop with a minimum of stress on the drive train. The FL 100 has an advanced controller which can provide detailed information on turbine performance over a phone line to a local computer or via the internet to a location anywhere in the world.

Presently in service in a number of countries, the FL 100 is the proven choice for wind turbines in this size range.

ROTOR

Diameter	21 m
Area	346 sq m
Number of blades	3
Speed	32 / 48 rpm
Power regulation	stall

GEAR BOX

Type	combined
Stages	3
Ratio	1 : 37.5

GENERATOR

Type	asynchronous, 3 phase,
Speed	1200 - 1800 rpm (60 Hertz)
Voltage	480 VAC

POWER CHARACTER

Rated output	100 kW (max. 130 kW)
Cut in	2.5 m/s
Rated output at	13 m/s
Cut out	25 m/s
Survival wind speed	67 m/s

TOWER

Hub height	35 m
Type	Tubular tower

WEIGHT

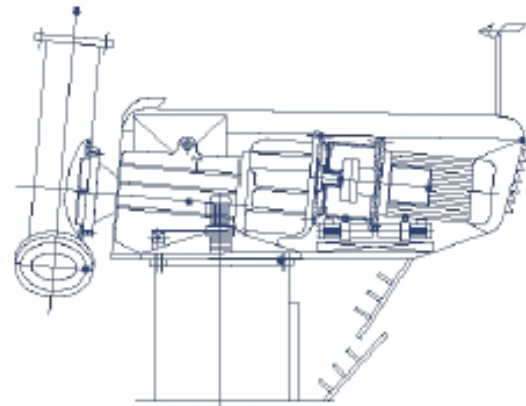
Rotor	2,800 kg
Nacelle	6,200 kg
Tower	18,000 kg

CONTROL SYSTEM

Speed regulation	grid connected
Yaw control	electric yaw motor
Main brake	disc brake
Secondary brake	aerodynamic tip brake
Monitoring	remote data and control

NOISE

Noise level	95 dB(A) at the nacelle
Tonality	none
Pulsation	none



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