

POWER solutions

 the Archimedes

Taking care of you, safely and soundly



Liam F1

The Archimedes is an innovative wind turbine design: small, silent, and affordable. Based upon the writings and methods of the Greek mathematician Archimedes the design mimics a shellfish, the Nautilidae (translated as sailor). We did 10 years research and development of the wind turbine Liam, and the results are spectacular.

Main characteristics of this innovative design are high efficiency, low cut-in wind speed providing for the highest yield (W/m²)*, silent operation, insensitive to turbulence, low maintenance, and an organic appearance. All together this wind turbine is able to generate about five times more energy than standard wind turbines of the same diameter.

 the Archimedes

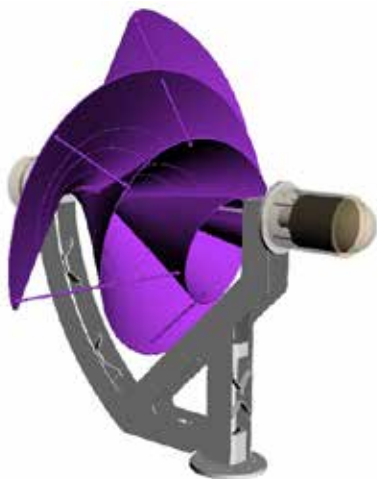
Supporting
Self sufficiency



Liam F1 Specifications



Maximum Power	1,50 kW
Rated power at 10 ms-1	510 W
Rated power at 12 ms-1	880 W
Maximum power at 15 ms-1	1.500 W
Cut in wind speed	2,5 ms-1
Cp Blades at 10 m/s	52
Efficiency generator	86%
Overall efficiency	45%
Survival wind speed	35 ms-1 (IEC61400-1 class 2)



Number of blades	3
Blade diameter	1,50 mtr
Production Certificates	ISO 9001, CE, IPE (MCS, CSA)
Patents UWM	more then 5
Inverter/controller	1.5 or 2.0 kW
Type ongrid/off controller	AC-AC on grid tie inverter / off grid AC-DC
Generator - Phases	3
Generator - Poles	12-6 paires
Output voltage	0 - 450 V
Maximum RPM at 35 ms-1	400
Operating temperature	-25 <> +60°C
Safety systems	electrical, mechanical, manual
Turbine controller	Controller (with MPPT)
Starting system	none, self starting
Yaw control	none, yawing by rotorshape

Material blades	Composite Glass Fiber, Brasalt Fiber, PA
Material Body-parts	Hot tub galvanized Steel Alluminium
Weight ±	100 Kg
Length x width x height	1745 x 1345 x 1760 mm
Maintance-low	only 2 moving parts
Warranty	2 Years limited warranty