Technical Specification



Twin Head Horizontal Crossflow Turbine
Horizontal Yaw regulated with Variable Speed
3620W
0.22
CLASS 3/IEC 61400-2
13 m/s
3 m/s
20 m/s
52 m/s
0.7' @52 m/s
Negligible across normal operating range
Turbine rotor clutch automatically
disengages, allowing rotor to 'freewheel'

ROTOR

8x2
2.5m
4m
5.5m

ADVANCED WIND CHANNELLING SHIELD

Number	2
Length	2.160m
Radius	1.315M
Angle	75°
Surface Area	2.698m ²

ELECTRICAL	
Generator	Direct Drive Pancake PMG
Transmission	Low maintenance multi-stage gearbox
TOWER	
Tubular Column	
Diameter	813mm
Total height inc. Top Frames & Lightening Rods	25 - 40 m max
Top operational Hub Height	17.lm
Parked Hub Height (optional)	5m
Ground Level Maintenance Hub Height	2.4m
Rotor Transit System (optional)	PLC controlled winch with fail on brake; Tower Transit Guide System
Telecom Interface	Common flange to accept telecoms industry standard Top frames
Lightening Protection	Yes
HYBRID ENERGY SYSTEM	
Output	48V DC inverted 110V/240V AC
Solar	3.3kW Bifacial Solar PV Canopy
Back up generation source	Diesel/Biofuel generator
Battery Store	Intelligent MNC Lithium technology; up to 36kWh storage and back up
Enclosure	Climate controlled secure enclosures
Remote Monitoring	Fully integrated communications; Live streaming telemetry to client Management systems
Grid Compatible	Yes