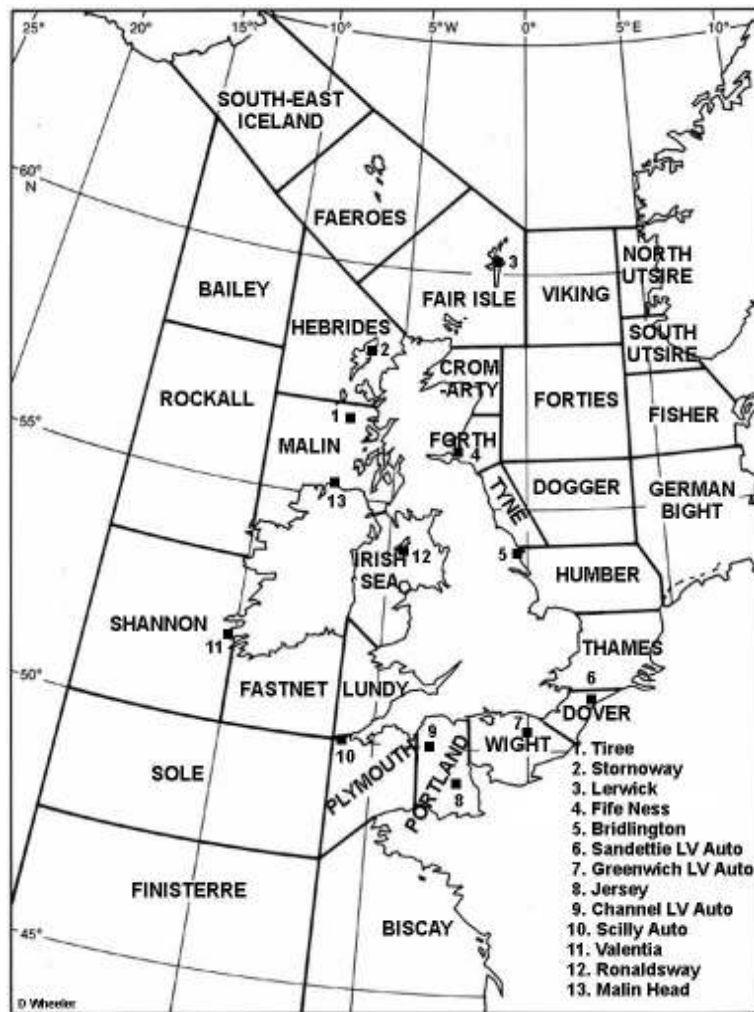




North Energy Systems

Wind Turbines



TOFTS OF TAIN, CASTLETOWN, CAITHNESS KW14 8TB
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Dogger - 200W Turbine

Model: Dogger-200 200W

Numbers of Blade: 3pcs
Material of Blade: FRP Complex Resin
Diameter of Wind Turbine: 2.2m
Start (out-in) wind speed: 3m/s
Outage (out-out) wind speed: 25m/s
Rated speed: 500 rotations/min
Security wind speed: 45m/s
Wind energy ratio: 41%
Generator: Permanent Magnetic Generator
Generator Rated power: 200w
Max output power: 300w
Output voltage: DC 28v or AC 110V/220V
Rated current: 7.1A
Type of off-course: automatically track wind direction by tail-vane
Protect: Manual
Tower: Guyed wire tower
Tower height: 6m
Charging control: Electron control
Power generation of year: 375kwh
Inverter Power supply: Not needed
Matching Battery: 2pcs 12v-100AH Lead-acid & colloid battery
Time of charging: 8 hours
Packing volume:
Blade: 1050 × 150 × 170mm
Motor and accessory: 550 × 350 × 450mm
Tower: 3100 × 300 × 350mm
Weight: 85kg



Scope Of Application

TV set (Below 21inch)
Lighting
DVD/VCD player
Electric Fan
Charging

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Malin - 300W Turbine

Model: Malin-300 300W

Numbers of Blade: 3pcs
Material of Blade: FRP Complex Resin
Diameter of Wind Turbine: 2.5m
Start (out-in) wind speed: 3m/s
Outage (out-out) wind speed: 25m/s
Rated speed :400 rotations/min
Security wind speed: 45m/s
Wind energy ratio: 41%
Generator: Permanent Magnetic Generator
Generator Rated power: 300w
Max output power: 450w
Output voltage: DC28v, AC110V/220V
Rated current: 10.7A
Type of off-course: automatically track wind direction by tail-vane
Type of limit speed: standing limited by automatic
Protect: Manual
Tower: Guyed wire tower
Tower height: 6m
Charging control: Electron control
Power generation of year: 750kwh
Inverter Power supply: Not needed
Matching Battery: 2pcs 12v-150AH Lead-acid & colloid battery
Time of charging: 10 hours
Packing volume:
Blade:1300×200×210mm
Motor and accessory:650×400×500mm
Tower:3100×350×400mm
Weight: 95kg



Scope Of Application

TV set (Below 29inch)
Lighting
DVD/VCD player
Electric Fan
Charging

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Forth - 500W Turbine

Model: Forth-500 500W

Numbers of Blade: 3pcs
Material of Blade: FRP Complex Resin
Diameter of Wind Turbine: 2.7m
Start (out-in) wind speed: 3m/s
Outage (out-out) wind speed: 25m/s
Rated speed: 400 rotations/min
Security wind speed: 45m/s
Wind energy ratio: 41%
Generator: Permanent Magnetic Generator
Generator Rated power: 500w
Max output power: 700w
Charging voltage: 36v DC
Output voltage of Inverter :220v/110v single phase
Rated current: 17.9A
Type of off-course: wind direction is decided by tail
Protect: Full automatic control
Tower: Guyed wire tower
Tower height: 6m
Charging control: Electron control
Power generation of year: 1250kwh
Inverter Power supply: Not needed
Matching Battery: 3pcs 12v-150AH Lead-acid & colloid battery
Time of charging: 12 hours
Packing volume:
Blade: 1500×200×260mm
Motor and accessory: 850×400×600mm
Tower: 3100×350×600mm
Weight: 105kg



Scope Of Application

TV set (Below 29inch)
Lighting
DVD/VCD player
Electric Fan
Charging
Washing machine

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Cromarty - 1kW Turbine

Model: Cromarty-1000 1KW

Numbers of Blade: 3pcs
Material of Blade: FRP Complex Resin
Diameter of Wind Turbine: 3.1m
Start (out-in) wind speed: 2m/s
Outage (out-out) wind speed: 25m/s
Rated speed: 400 rotations/min
Security wind speed: 45m/s
Wind energy ratio: 41%
Generator: Permanent Magnetic Generator
Generator Rated power: 1000w
Max output power: 1500w
Output voltage: 48v
Rated current: 17.9A
Type of off-course: automatically track wind direction by tail-vane
Protect: Manual
Tower: Guyed wire tower
Tower height: 6m
Charging control: Electron control
Power generation of year: 2500kwh
Inverter Power supply: pure sine wave
Matching Battery: 4pcs 12v-200AH Lead-acid & colloid battery
Time of charging: 10 hours
Packing volume:
Blade: 1500×200×240mm
Motor and accessory: 650×400×500mm
Tower: 3100×350×400mm
Weight: 150kg

Scope Of Application

TV set (Below 29inch),
Lighting
DVD/VCD player
Electric Fan
Charging
Water pump
Refrigerator
Washing machine



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Hebrides - 2kW Turbine

Model: Hebrides-2000 2KW

Numbers of Blade: 3pcs
Material of Blade: FRP Complex Resin
Diameter of Wind Turbine: 3.7m
Start (out-in) wind speed: 2m/s
Outage (out-out) wind speed: 20m/s
Rated speed: 400 rotations/min
Security wind speed: 50m/s
Wind energy ratio: 40%
Generator: Permanent Magnetic Generator
Generator rated power: 2000w
Max output power: 2500w
Charging voltage: 120v DC

Output voltage of Inverter :220v/110v single phase
Rated current: 17.9A
Type of off-course: wind direction is decided by tail
Protect: Manual and Full automatic control
Tower: Guyed wire tower or cone galvanized tower
Tower height: Guyed (9m); Cone (9.5m)
Charging control: Electron control
Power generation of year: 5000kwh
Inverter power supply: Pure sine wave inverter
Matching Battery: 10pcs 12v-200AH Lead-acid & colloid battery
Time of charging: above 15 hours
Packing volume:
Blade: 2100 × 250 × 300mm
Motor and accessory: 1000 × 600 × 700mm
Tower: 4100 × 350 × 700mm
Weight: 300kg



Scope Of Application

TV set
Lighting
DVD/VCD player
Electric Fan
Charging
Water pump
Refrigerator
Microwave cooker
Air conditioning
Washing machine

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Viking - 3kW Turbine

Model: Viking-3000 3KW

Numbers of Blade: 3pcs
Material of Blade: FRP Complex Resin
Diameter of Wind Turbine: 4.0m
Start (out-in) wind speed: 2m/s
Outage (out-out) wind speed: 20m/s
Rated speed: 250 rotations/min
Security wind speed: 50m/s
Wind energy ratio: 40%
Generator: Permanent Magnetic Generator
Generator rated power: 3000w
Max output power: 3500w
Charging voltage: 240v DC
Output voltage of Inverter: 220v/110v single phase
Rated current: 26.8A
Type of off-course: wind direction is decided by tail
Protect: Full automatic intelligent control
Tower: Guyed wire tower or cone galvanized tower
Tower height: Guyed (9m); Cone (10.5m)
Charging control: Full automatic intelligent control
Power generation of year: 6500kwh
Inverter power supply: Pure sine wave inverter
Matching Battery: 20pcs 12v-120AH Lead-acid & colloid battery
Time of charging: above 15 hours
Packing volume:
Blade: 2420 × 250 × 300mm
Motor and accessory: 1000 × 600 × 700mm
Tower: 4100 × 350 × 700mm
Weight: 430kg



Scope Of Application

TV set
Lighting
DVD/VCD player
Electric Fan
Charging
Water pump
Refrigerator
Microwave cooker
Air conditioning
Washing Machine

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Fastnet - 5kW Turbine

Model: Fastnet-5000 5KW

Numbers of Blade: 3pcs
Material of Blade: FRP Complex Resin
Diameter of Wind Turbine: 6.4m
Start (out-in) wind speed: 3m/s
Outage (out-out) wind speed: 20m/s
Rated speed: 220 rotations/min
Security wind speed: 50m/s
Wind energy ratio: 45%
Generator: Permanent Magnetic Generator
Generator rated power: 5000w
Max output power: 6500w
Charging voltage: 240v DC
Output voltage of Inverter :220v/110v single phase
Rated current: 26.8A
Type of off-course: wind direction is decided by dog vane
Protect: Full automatic intelligent control
Tower: Guyed wires tower or cone galvanized tower
Tower height: Guyed (9m); Cone (11.5m)
Charging control: Full automatic intelligent control
Power generation of year: 12500kwh
Inverter power supply: Pure sine wave inverter
Matching Battery: 20pcs 12v-150AH Lead-acid & colloid battery
Time of charging: above 16 hours
Packing volume:
Blade:3000×300×350mm
Motor and accessory:1300×600×800mm
Tower:5100×400×500mm
Weight: 1200kg



Scope Of Application

TV set (Below 29inch)
Lighting
DVD/VCD player
Electric Fan,
Charging
Water pump
Refrigerator,
Microwave cooker
Air conditioning
Computer
Washing machine

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Malin – 7.5kW Turbine

Model: Malin-7500 5KW

Numbers of Blade: 3pcs
Material of Blade: FRP Complex Resin
Diameter of Wind Turbine: 6.8m
Start (out-in) wind speed: 3m/s
Outage (out-out) wind speed: 20m/s
Rated speed: 200 rotations/min
Security wind speed: 50m/s
Wind energy ratio: 45%
Generator: Permanent Magnetic Generator
Generator rated power: 7500w
Max output power: 10000w
Charging voltage: 240v DC
Output voltage of Inverter :220v/110v single phase
Rated current: 32.6A
Type of off-course: wind direction is decided by dogvane
Protect: Full automatic intelligent control
Tower: Guyed wires tower or cone galvanized tower
Tower height: Guyed (11.5m); Cone (11.5m)
Charging control: Full automatic intelligent control
Power generation of year: 15000kwh
Inverter power supply: Pure sine wave inverter
Matching Battery: 20pcs 12v-200AH Lead-acid & colloid battery
Time of charging: above 16 hours
Packing volume:
Blade:3500×350×450mm
Motor and accessory:1500×700×800mm
Tower: 5100×500×500mm
Weight: 1400kg



Scope Of Application

TV set (Below 29inch)
Lighting
DVD/VCD player
Electric Fan
Charging
Water pump
Refrigerator
Microwave cooker
Air conditioning
Computer
Washing machine

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Fisher – 10kW Turbine

Model: Fisher-10000 10KW

Numbers of Blade: 3pcs
Material of Blade: FRP Complex Resin
Diameter of Wind Turbine: 8m
Start (out-in) wind speed: 3m/s
Outage (out-out) wind speed: 20m/s
Rated speed: 200 rotate /min
Security wind speed: 50m/s
Wind energy ratio: 45%
Generator: Permanent Magnetic Generator
Generator rated power: 10000w
Max output power: 13000w
Charging voltage: 240v DC
Output voltage of Inverter :220v/110v single phase
Rated current: 43.5A
Type of off-course: wind direction is decided by dog vane
Protect: Full automatic intelligent control
Tower: Guyed wires tower or cone galvanized tower
Tower height: Guyed (11.5m), Cone(13.5m)
Charging control: Full automatic intelligent control
Power generation of year: 25000kwh
Inverter power supply: Pure sine wave inverter
Matching Battery: 40pcs 12v-150AH Lead-acid & colloid battery
Time of charging: above 18hours
Packing volume:
Blade: 4000×400×500mm
Motor and accessory: 1500×700×800mm
Tower: 5100×500×500mm
Weight: 1800kg

Scope Of Application

TV set
DVD/VCD player
Electric Fan
Lighting & charging
Water pump
Refrigerator
Microwave cooker
Air conditioning
Computer
Washing machine



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Utsire – 15kW Turbine

Model: Fisher-15000 15KW

Numbers of Blade: 3pcs
Material of Blade: FRP Complex Resin
Diameter of Wind Turbine: 10m
Start (out-in) wind speed: 3m/s
Outage (out-out) wind speed: 20m/s
Rated speed: 190 rotations/min
Security wind speed: 50m/s
Wind energy ratio: 45%
Generator: Permanent Magnetic Generator
Generator rated power: 15000w
Max output power: 22000w
Charging voltage: 240v DC
Output voltage of Inverter :220v/110v single phase
Rated current: 45.6A
Type of off-course: wind direction is decided by dog vane
Protect: Full automatic intelligent control
Tower: Guyed wires tower or Cone Galvanized tower
Tower height: Guyed (11.5m); Cone (13.5m)
Charging control: Full automatic intelligent control
Power generation of year: 40000kwh
Inverter power supply: Pure sine wave inverter
Matching Battery: 40pcs 12v-200AH Lead-acid & colloid battery
Time of charging: above 20 hours
Packing volume:
Blade: 3500×350×450mm
Motor and accessory: 1500×700×800mm
Tower: 5100×500×500mm
Weight: About 2000kg

Scope Of Application

TV set
DVD/VCD player
Electric Fan,
Lighting & charging
Water pump,
Refrigerator,
Microwave cooker
Air conditioning
Computer,
Washing machine

Suitable for large house, small hotel or community system



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Rockall – 20kW Turbine

Model: Fisher-20000 20KW

Numbers of Blade: 3pcs
Material of Blade: FRP Complex Resin
Diameter of Wind Turbine: 12m
Start (out-in) wind speed: 3m/s
Outage (out-out) wind speed: 20m/s
Rated speed: 180 rotations/min
Security wind speed: 50m/s
Wind energy ratio: 45%
Generator: Permanent Magnetic Generator
Generator rated power: 20000w
Max output power: 25000w
Charging voltage: 240v DC
Output voltage of Inverter : 220v/110v single phase
Rated current: 48.3A
Type of off-course: wind direction is decided by dog vane
Protect: Full automatic intelligent control
Tower: Guyed wires tower or Cone Galvanized tower
Tower height: Guyed (18m); Cone (16.5m)
Charging control: Full automatic intelligent control
Power generation of year: 55000kwh
Inverter power supply: Pure sine wave inverter
Matching Battery: 60pcs 12v-200AH Lead-acid & colloid battery
Time of charging: above 20 hours
Packing volume:
Blade: 5100 × 520 × 580mm
Motor and accessory: 1500 × 875 × 800mm
Tower: 5100 × 700 × 500mm
Weight: about 2400kg

Scope Of Application

TV set
DVD/VCD player
Electric Fan
Lighting & charging
Water pump
Refrigerator
Microwave cooker
Air conditioning
Computer
Washing machine

Suitable for large house, small hotel or community system



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Pricing

Name	Rating	Price (£)
<i>Dogger</i>	<i>200W</i>	375.00
<i>Malin</i>	<i>300W</i>	475.00
<i>Forth</i>	<i>500W</i>	590.00
<i>Cromarty</i>	<i>1kW</i>	1180.00
<i>Hebrides</i>	<i>2kW</i>	1800.00
<i>Viking</i>	<i>3kW</i>	4700.00
<i>Fastnet</i>	<i>5kW</i>	6800.00
<i>Malin</i>	<i>7.5kW</i>	
<i>Fisher</i>	<i>10kW</i>	13400.00
<i>Utsire</i>	<i>15kW</i>	
<i>Rockall</i>	<i>20kW</i>	19000.00

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