

Specification

Turbine Upwind Horizontal Axis with patented Diffuser Ring
Rated Power Output 1500 Watt
Generator Brushless Permanent Magnet Generator
Blades & Rotor 2.12m injection moulded nano-fibre reinforced polymer
Mast Aluminium (building mounted) or wooden pole
Mounting System Custom designed vibration-absorbing mounting brackets
Cut-in Speed 3.4m/s (7.6mph)
Acoustic Emissions <35dB [A] (across all wind speeds)
EMI CE Certified, BS EN 61000
Grid Connection G83, UL & AS4777 Certified
Battery Charging 48v or designed to suit your requirements
standards BS EN 61400-2, BS EN 7671 & BS 5760-7



Precio aerogenerador 1,5kW para instalación conectada a la red

Ref.	Descripción	Unidades	PVP Recomendado
1	SWIFT wind turbine	1	- €
2	KACO inverter System	1	- €
3	The DC and AC Isolators	1	- €
4	Mounting System Standard Wall Mount	1	8.937,60 €
6	Transport	1	478,80 €
TOTAL			9.416,40 €
Optional	Mounitng System Flange Mount	1	1.596,00 €
Optional	Mounitng System Flat Roof Stand	1	1.915,20 €
Optional	Battery	1	Consultar



Specification

Rated Output	3000 Watt
Maximum Output	4500 Watt
Charge Voltage	DC 180V
Standard Output Voltage	AC 220V/110V
Blade material	Glass Fiber Reinforced Plastic
Blade diameter	4.6m (15 ft.)
Start up Wind Speed	3m/s (6.7 mph)
Rated Wind Speed	10m/s (22 mph)
Rated rotating method	400 rpm
Speed regulation method	Yawing+electromagnetic braking
Shutting dowl method	Manual+Automatic
Noise (at 5m distance)	32 db(A) @ 5m/s wind
Generator Type	Permanent Magnet Alternator
Generator Weight	45kg (99 lbs)
Turbine Weight (adobe tower)	192kg (422.4 lbs)
Free standing tower diameter (mm)	Φ218×Φ700
Tower Height	12m (39.4 ft),18m(59.0ft)
Suggested battery	DC180V150/200AH



Precio aerogenerador 3kW para instalación aislada

Ref.	Descripción	Unidades	PVP Recomendado
1	Wind turbine	1	3.150,00 €
2	PLC	1	931,20 €
2	Charger	1	607,20 €
3	7,5kW unloads	1	475,20 €
4	Single phase off-grid inverter	1	1.560,00 €
5	12m Free standing tower	1	3.625,20 €
6	Transport	1	720,00 €
TOTAL			11.068,80 €
Optional	Wind/solar hybrid charger	1	678,00 €
Optional	3-phase off-grid inverter	1	2.428,80 €
Optional	12m hydraulic tower system	1	5.833,20 €
Optional	Battery	1	Consultar

Precio aerogenerador 3kW para instalación conectada a la red

Ref.	Descripción	Unidades	PVP Recomendado
1	Wind turbine	1	3.150,00 €
2	PLC	1	931,20 €
2	Rectifier	1	607,20 €
3	7,5kW unloads	1	475,20 €
4	Single phase grid-tied inverter	1	2.590,80 €
5	12m Free standing tower	1	3.625,20 €
6	Transport	1	720,00 €
TOTAL			12.099,60 €
Optional	12m hydraulic tower system	1	5.833,20 €

Specification

Rated Output	5000 Watt
Maximum Output	7500 Watt
Charge Voltage	DC 240V
Standard Output Voltage	AC 220V/110V
Blade material	Glass Fiber Reinforced Plastic
Blade diameter	6.4m (21 ft.)
Start up Wind Speed	2.5m/s (5.6 mph)
Rated Wind Speed	10m/s (22 mph)
Rated rotating method	240 (r/min)
Speed regulation method	Yawing+electromagnetic braking
Shutting dowl method	Manual+Automatic
Noise (at 5m distance)	34 db(A) @ 5m/s wind
Generator Type	Permanent Magnet Alternator
Generator Weight	70kg (165 lbs)
Turbine Weight (adobe tower)	405kg (891 lbs)
Free standing tower diameter (mm)	Φ300×Φ850
Tower Height	12m (39.4 ft),18m(59.0ft)
Suggested battery	DC240V200AH



Precio aerogenerador 5kW para instalación aislada

Ref.	Descripción	Unidades	PVP Recomendado
1	Wind turbine	1	4.783,50 €
2	PLC	1	931,20 €
2	Charger	1	607,20 €
3	7,5kW unloads	1	475,20 €
4	Single phase off-grid inverter	1	1.560,00 €
5	12m Free standing tower	1	3.625,20 €
6	Transport	1	720,00 €
TOTAL			12.702,30 €
Optional	Wind/solar hybrid charger	1	678,00 €
Optional	3-phase off-grid inverter	1	2.428,80 €
Optional	12m hydraulic tower system	1	5.833,20 €
Optional	Battery	1	Consultar

Precio aerogenerador 5kW para instalación conectada a la red

Ref.	Descripción	Unidades	PVP Recomendado
1	Wind turbine	1	4.783,50 €
2	PLC	1	931,20 €
2	Rectifier	1	607,20 €
3	7,5kW unloads	1	475,20 €
4	Single phase grid-tied inverter	1	2.590,80 €
5	12m Free standing tower	1	3.625,20 €
6	Transport	1	720,00 €
TOTAL			13.733,10 €
Optional	12m hydraulic tower system	1	5.833,20 €

Specification

Rated Output	10.000 Watt
Maximum Output	15.000 Watt
Charge Voltage	DC 240V
Standard Output Voltage	Single phase:AC 220V/110V Three phase:AC380/220V
Blade material	Glass Fiber Reinforced Plastic
Blade diameter	8m (26.5 ft.)
Start up Wind Speed	3m/s (6.7 mph)
Rated Wind Speed	10m/s (22 mph)
Rated rotating method	180 (r/min)
Speed regulation method	Yawing+electromagnetic braking
Shutting dowl method	Manual+Automatic
Brake mode	Electronic protection+Manual shut-down
Noise (at 5m distance)	34 db(A) @ 5m/s wind
Generator Type	Permanent Magnet Alternator
Generator Weight	150kg (330 lbs.)
Turbine Weight (adobe tower)	690kg (1518 lbs.)
Free standing tower diameter (mm)	Φ352×Φ900
Tower Height	12m (39.4 ft),18m(59.0ft)
Suggested battery	DC240V250/400AH



Precio aerogenerador 10kW para instalación aislada

Ref.	Descripción	Unidades	PVP Recomendado
1	Wind turbine	1	8.599,50 €
2	PLC	1	931,20 €
2	Charger	1	1.174,80 €
3	15kW unloads	1	698,40 €
4	Single phase off-grid inverter	1	3.178,80 €
5	12m Free standing tower	1	5.121,60 €
6	Transport	1	720,00 €
TOTAL			20.424,30 €
Optional	Wind/solar hybrid charger	1	1.264,80 €
Optional	3-phase off-grid inverter	1	5.770,80 €
Optional	16m hydraulic tower system	1	8.799,60 €
Optional	Battery	1	Consultar

Precio aerogenerador 10kW para instalación conectada a la red

Ref.	Descripción	Unidades	PVP Recomendado
1	Wind turbine	1	8.599,50 €
2	PLC	1	931,20 €
2	Rectifier	1	1.174,80 €
3	15kW unloads	1	698,40 €
4	Single phase grid-tied inverter	1	5.366,40 €
5	12m Free standing tower	1	5.121,60 €
6	Transport	1	720,00 €
TOTAL			22.611,90 €
Optional	16m hydraulic tower system	1	8.799,60 €

Specification

Rated Output 10.000 Watt @ 9m/s
Turbine Designed Standard AWEA, MCS, IEC 61400
Start up Wind Speed 2,5 m/s
Cut-in Wind Speed 3,5 m/s
Cut-out Wind Speed 25 m/s
Survival Wind Speed 59,5 m/s
Anemometer Ultrasonic anemometer
Rotor Blade Diameter 9,8 m
Rotor Speed 150 RPM
Generator Voltage 240 Vdc @ 150 RPM
Generator type Synchronous permanent magnet
Grid Feeding 230V, 50HZ, 110V, 60HZ 1Ph or 3Ph
Turbine Controller WICO microprocessor
Rotor Speed Control 1. Electronic speed limiter 2. Active yaw
Bracking System 1. Automatic generator relay switch control 2. Mechanical braking
Remote Monitoring WIPO remote monitoring
Interface Lan / Wireless / GPRS / 3G
Designed Life Span >20 year
Acoustic Emission < 55 db
Hub Height 12m and 20m
Warranty 1 year



Precio aerogenerador 10kW para instalación conectada a la red

Ref.	Descripción	Unidades	PVP Recomendado
1	Windforce 10kW (turbine, controller, hub, blades, 22m cable)	1	24.428,25 €
2	19,6m hydraulic lifting tower	1	15.633,60 €
2	Tirfor winch	1	938,40 €
3	Tower installation tool	1	187,20 €
4	Hydraulics Rams 19,6m	1	2.258,40 €
5	Petrol Engine for Hydraulic lifting system	1	1.051,20 €
6	5kW Challengtec Inverter	2	7.135,20 €
7	60V DC transformer for Power One Inverter	1	103,20 €
8	WIFI	1	300,00 €
TOTAL			52.035,45 €
Optional	11,6m hydraulic lifting tower	1	9.554,40 €
Optional	Hydraulics Rams 11,6m	1	1.502,40 €
Optional	2.5kW Challengtec battery charge controller (Lowwind speed charge, need 4 units for WINForce)	4	4.718,40 €

Specification

Rated Output 10.000 Watt @ 9m/s
Turbine Designed Standard AWEA, MCS, IEC 61400
Start up Wind Speed 2,5 m/s
Cut-in Wind Speed 3,5 m/s
Cut-out Wind Speed 25 m/s
Survival Wind Speed 59,5 m/s
Anemometer Ultrasonic anemometer
Rotor Blade Diameter 9,8 m
Rotor Speed 150 RPM
Generator Voltage 240 Vdc @ 150 RPM
Generator type Synchronous permanent magnet
Grid Feeding 230V, 50HZ, 110V, 60HZ 1Ph or 3Ph
Turbine Controller WICO microprocessor
Rotor Speed Control 1. Electronic speed limiter
2. Active yaw
Bracking System 1. Automatic generator relay switch control
2. Mechanical braking
Remote Monitoring WIPO remote monitoring
Interface Lan / Wireless / GPRS / 3G
Designed Life Span >20 year
Acoustic Emission < 55 db
Hub Height 12m and 20m
Warranty 5 year



Precio aerogenerador 10kW para instalación conectada a la red

Ref.	Descripción	Unidades	PVP Recomendado
1	Windforce 10kW (turbine, controller, hub, blades, 22m cable)	1	32.569,88 €
2	19,6m hydraulic lifting tower	1	15.633,60 €
2	Tirfor winch	1	938,40 €
3	Tower installation tool	1	187,20 €
4	Hydraulics Rams 19,6m	1	2.258,40 €
5	Petrol Engine for Hydraulic lifting system	1	1.051,20 €
6	5kW Challengtec Inverter	2	3.567,60 €
7	60V DC transformer for Power One Inverter	1	103,20 €
8	WIFI	1	300,00 €
TOTAL			56.609,48 €
Optional	11,6m hydraulic lifting tower	1	9.554,40 €
Optional	Hydraulics Rams 11,6m	1	1.502,40 €
Optional	2.5kW Challengtec battery charge controller (Lowwind speed charge, need 4 units for WINForce)	4	1.179,60 €

Specification

Rated Output	20.000 Watt
Maximum Output	30.000 Watt
Charge Voltage	DC 300V
Standard Output Voltage	Single phase:AC 220V/110V Three phase:AC380/220V
Blade material	Glass Fiber Reinforced Plastic
Blade diameter	9m (29.5 ft.)
Start up Wind Speed	3m/s (6.7 mph)
Rated Wind Speed	10m/s (22 mph)
Rated rotating method	180 (r/min)
Speed regulation method	Yawing+electromagnetic braking
Shutting dowl method	Manual+Automatic
Brake mode	Electronic protection+Manual shut-down
Noise (at 5m distance)	34 db(A) @ 5m/s wind
Generator Type	Permanent Magnet Alternator
Turbine Weight (adobe tower)	690kg (1518 lbs.)
Free standing tower diameter (mm)	Φ375×Φ1050
Tower Height	16m (52.5 ft),24m(78.7 ft)
Suggested battery	DC240V400/600AH



Precio aerogenerador 20kW para instalación aislada

Ref.	Descripción	Unidades	PVP Recomendado
1	Wind turbine	1	16.078,50 €
2	PLC	1	931,20 €
2	Charger	1	1.780,80 €
3	30kW unloads	1	1.255,20 €
4	Single phase off-grid inverter	1	5.973,60 €
5	16m Free standing tower	1	7.795,20 €
6	Transport	1	1.200,00 €
TOTAL			35.014,50 €
Optional	Wind/solar hybrid charger	1	1.923,60 €
Optional	3-phase off-grid inverter	1	7.998,00 €
Optional	16m hydraulic tower system	1	11.360,40 €
Optional	Battery	1	Consultar

Precio aerogenerador 20kW para instalación conectada a la red

Ref.	Descripción	Unidades	PVP Recomendado
1	Wind turbine	1	16.078,50 €
2	PLC	1	931,20 €
2	Rectifier	1	1.780,80 €
3	30kW unloads	1	1.255,20 €
4	Single phase grid-tied inverter	1	10.022,40 €
5	16m Free standing tower	1	7.795,20 €
6	Transport	1	1.200,00 €
TOTAL			39.063,30 €
Optional	16m hydraulic tower system	1	11.360,40 €

Specification

Rated Output	30.000 Watt
Maximum Output	45.000 Watt
Charge Voltage	DC 360V
Standard Output Voltage	Single phase:AC 220V/110V Three phase:AC380/220V
Blade material	Glass Fiber Reinforced Plastic
Blade diameter	10m (32.8 ft.)
Start up Wind Speed	2.5m/s (5.6 mph)
Rated Wind Speed	11m/s (24.6 mph)
Rated rotating method	160 (r/min)
Speed regulation method	Yawing+electromagnetic braking
Shutting dowl method	Manual+Automatic
Brake mode	Electronic protection+Manual shut-down
Noise (at 5m distance)	34 db(A) @ 5m/s wind
Generator Type	Permanent Magnet Alternator
Turbine Weight (adobe tower)	690kg (1518 lbs.)
Free standing tower diameter (mm)	Φ475×Φ1200
Tower Height	16m (52.5 ft),24m(78.7 ft)
Suggested battery	DC240V 600/1000AH



Precio aerogenerador 30kW para instalación aislada

Ref.	Descripción	Unidades	PVP Recomendado
1	Wind turbine	1	25.057,13 €
2	PLC	1	931,20 €
2	Charger	1	2.428,80 €
3	45kW unloads	1	1.802,40 €
4	3-phase off-grid inverter	1	14.578,80 €
5	16m Free standing tower	1	9.314,40 €
6	Transport	1	1.200,00 €
TOTAL			55.312,73 €
Optional	Wind/solar hybrid charger	1	2.590,80 €
Optional	Battery	1	Consultar

Precio aerogenerador 30kW para instalación conectada a la red

Ref.	Descripción	Unidades	PVP Recomendado
1	Wind turbine	1	25.057,13 €
2	PLC	1	931,20 €
2	Rectifier	1	2.428,80 €
3	45kW unloads	1	1.802,40 €
4	3-phase grid-tied inverter	1	16.952,40 €
5	16m Free standing tower	1	9.314,40 €
6	Transport	1	1.200,00 €
TOTAL			57.686,33 €

Specification

Rated Output	50.000 Watt
Maximum Output	75.000 Watt
Charge Voltage	DC 400V
Standard Output Voltage	Single phase:AC 220V/110V Three phase:AC380/220V
Blade material	GPR
Blade diameter	12m(39.4 ft.)
Start up Wind Speed	2m/s(4.5 mph)
Rated Wind Speed	11m/s (24.6 mph)
Rated rotating method	140 (r/min)
Speed regulation method	Yawing+electromagnetic braking
Shutting dowl method	Manual+Automatic
Wind energy utilizing ratio	0.42 Cp
Generator Type	Permanent Magnet Alternator
Generator output	Single-phase frequency conversion AC
Rated charging current	125A
The maximum charging current	190A (in a short time)
Generator efficiency	>0.92
Generator weight	1,200 kg (2645 lbs)
Noise Index (dBA)	690kg (1518 lbs.)
Free standing tower diameter (mm)	Φ530×Φ1350
Tower Height	18m (59.0 ft)
Suggested battery	DC240V 600/1000AH



Precio aerogenerador 50kW para instalación aislada

Ref.	Descripción	Unidades	PVP Recomendado
1	Wind turbine	1	47.531,25 €
2	PLC	1	931,20 €
2	Charger	1	3.948,00 €
3	75kW unloads	1	2.673,60 €
4	3-phase off-grid inverter	1	25.938,00 €
5	18m Free standing tower	1	13.162,80 €
6	Transport	1	1.200,00 €
TOTAL			95.384,85 €
Optional	Wind/solar hybrid charger	1	4.292,40 €
Optional	Battery	1	Consultar

Precio aerogenerador 50kW para instalación conectada a la red

Ref.	Descripción	Unidades	PVP Recomendado
1	Wind turbine	1	47.306,25 €
2	PLC	1	931,20 €
2	Rectifier	1	3.948,00 €
3	75kW unloads	1	2.673,60 €
4	3-phase grid-tied inverter	1	28.176,00 €
5	18m Free standing tower	1	13.162,80 €
6	Transport	1	1.200,00 €
TOTAL			97.397,85 €