

WINDFORCE™ Series

WINDFORCE™ Series – XUNZEL

Wind Battery Maintainer and Charger

Product Overview

- XUNZEL WINDFORCE™ Series wind generators are designed to charge deep cycle lead acid solar batteries.
- They generate energy day and night (24 hours).
- Thanks to their aerodynamic design and carbon fibre blades, they have a high generating capacity and are very quiet.
- Capable of generating from low wind speeds
- Easy to install and maintenance free
- Compact and lightweight
- Charge controller included. Protects batteries from overcharging and maximises battery life.
- Available in all voltages. Versatile. WINDFORCE-6000 and WINDFORCE-6000-MA (marine version) charge 12V and 24V batteries (with automatic detection). WINDFORCE-15000-48 charge 48V battery bank.
- Highly resistant. WINDFORCE-6000 and WINDFORCE6000-MA (marine version) is specially designed for all kind of environments. The WINDFORCE6000-MA and its controller are corrosion and water resistant.
- Ideal for wind and hybrid off-grid, back-up (UPS) and agricultural applications, boating, boats, caravans, professional installations, remote and/or off-grid cottage power supply, lighting, communication, refrigeration, autopilots, water pumps, etc.



WINDFORCE™-6000 y WINDFORCE-6000-MA (MARINE)
12V and 24V (automatic detection) Battery charger



WINDFORCE™-15000
48V Battery charger

Available Models

- **WINDFORCE-6000-12/24VDC** (automatic detection)
- **WINDFORCE-6000-MA-12/24VDC** (Marine- automatic detection)
- **WINDFORCE-15000-48VDC**

Recommended optional accessory: TOWEOLSU complete folding tower kit, height 8.8 metres.

WINDFORCE™ Features and Benefits

- Designed to start generating from low wind speeds.
- Robust and resistant. With industrial and aeronautical grade materials.
- Silent thanks to their patented aerodynamic design.
- Very easy to install. Maintenance free.
- Efficient and safe battery charging. Thanks to its included controller with MPPT technology, they maximize the charge.
- Compact, light and resistant design. Anodised aluminium body.

Industry Leading Technology for Off-Grid, Off-Shore and Backup Power Applications



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Specifications

Model	WINDFORCE™ 6000-12/24	WINDFORCE™ 6000-MARINE- 12/24	WINDFORCE™ 150000-48
Code / P N	EOLWIN600	EOLWIN600MA	EOLWIN150048
Nominal Power	600W (@12.5m/s)	600W (@12.5m/s)	1500W (@12.5m/s)
Charging voltage	12/24 Vcc automático	12/24 Vcc automático	48 Vcc
Minimum battery capacity	480Ah@12V 240Ah@24V	480Ah@12V 240Ah@24V	240Ah@48V
Generator	Precision neodymium permanent magnets		
Protections			
Low Voltage Protection	10Vcc (@12V) 20Vcc (@24V)	10Vcc (@12V) 20Vcc (@24V)	40Vcc
High Voltage Protection	15.5Vcc (@12V) 31.0Vcc (@24V)	15.5Vcc (@12V) 31.0Vcc (@24V)	61Vcc (@48V)
High speed protection	> 1400 rpm		
Mechanical Data			
Body material	High strength high pressure die cast aluminium		
Start-up wind speed	>3.6km/h (1m/s)		
Start-up generation	>7.2km/h (2m/s)		>9km/h (2m/s)
Rotor diameter	1.31m	1.31m	1.7m
Blades	3 blades Fibre		
Weight	12.0kg	12.0kg	15.0kg



XUNZEL™ reserves the right to make changes and improvements without prior notice.

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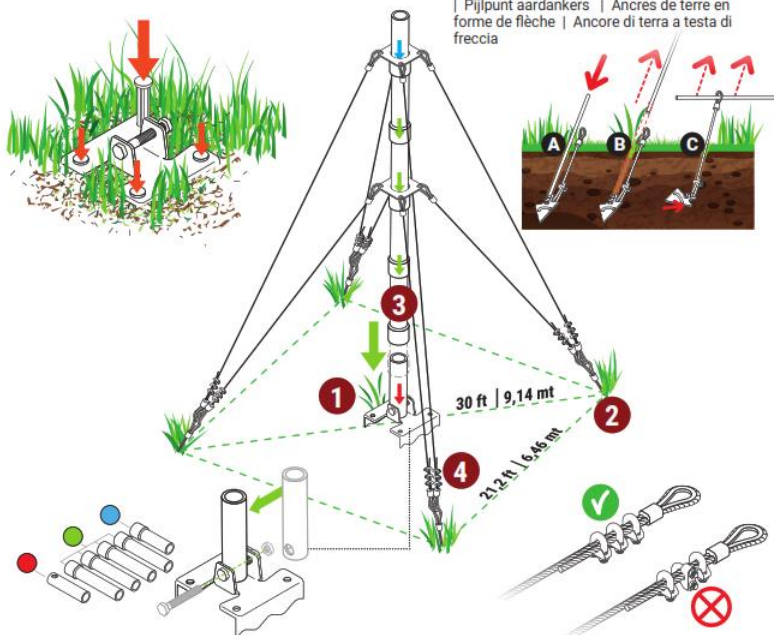
Universal tower KIT complete folding tower height 8.8 meters

(Código: **TOWELSU**)

■ EN TOWER ASSEMBLY ES MONTAJE DE LA TORRE PT MONTAGEM DAS TORREIRAS FR ASSEMBLAGE DE LA TOUR DE TURM-MONTAGE NL TOREN ASSEMBLAGE IT MONTAGGIO DELLA TORRE

1 Tower base | Base de la torre | Base da torre | Base de la tour | Turmfuß | Torenbasis | Base della torre

2 Arrowhead earth anchors | Anclajes de tierra con cabeza de flecha | Ancoras de terra com cabeça de flecha | Erdanker mit Pfeilspitze | Pijlpunt aardankers | Ancres de terre en forme de flèche | Ancore di terra a testa di freccia



3 Tower tube layout | Disposición de los tubos de la torre | Disposição dos tubos da torre | Layout der Turmröhre | Toren buis layout/ | Disposizione dei tubi della torre.

4 Attaching the Guy Wires | Fijación de los cables de sujeción | Anexar os Fios Guy | Fixation des câbles de haubanage | Anbringen der Abspanndrähte | Bevestigen van de spandraden | Fissare i fili di ancoraggio

UNIVERSAL TOWER KIT (Code: TOWERLSU)

■ EN COMPONENTS ES COMPONENTES PT COMPONENTES FR COMPOSANTS DE COMPONENTEN NL COMPONENTEN IT COMPONENTI

1 Tower Base Lower Guy

Tower Base Earth Spikes

2 Cable Wire 21ft (6,4 m)

3 Upper Guy Cable Wire 30 ft (9,1 m)

4 Cable Clamps (x16)

5 Cable Thimbles (x8)

6 Arrowhead Earth Anchor (x3)

Earth Anchor Driving Rod

7 Tower Tubes

42 in / 10 m [x1]
48 in / 1,2 m [x1]
72 in / 18 m [x4]

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