

# FUKUTA®

## Wind Power Turbine ENERGY-SAVING

Can be driven by any direction of wind.  
No gearbox. Outer-rotor, drive directly.  
Simple & safety structure.  
Minimum noise, and high efficiency.

Solve wind problem due to different landforms.  
Suitable for cities, countryside, islands, farms,  
villages, schools, etc...



## TECHNICAL SPECIFICATIONS

### Wind Rotor

Rotor No.	TSW-005	TSW-050
Rotor Type	Vertical Axis	
Rated Wind Output	500W	5000W
Rated Wind Speed	11m/s	
Max.Power	600W	7000W
Start-up Wind Speed	1.8 m/s	
Cut-in Wind Speed	2.5 m/s	
Cut-off Wind Speed	15 m/s	
Survival Wind Speed	60 m/s	
Rotor Diameter	1.8m	5m
Blade Height	1.5m	4m
Swept Area	2.7 m <sup>2</sup>	20 m <sup>2</sup>
Tip Speed Ratio	2.6	3.0
Transmission Type	Direct Drive, No Gearbox	
Brake System	Over Speed Resistor Brake Over Speed Short Circuit Brake	Air Brake Over Speed Resistor Brake Over Speed Short Circuit Brake

### Generator

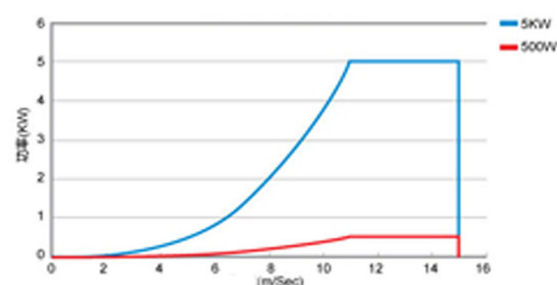
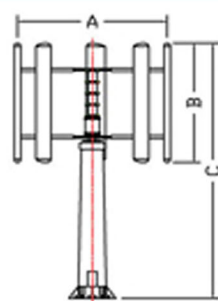
Generator Type	Outer-rotor PM Generator
Power Conversion	AC→DC MPPT 12V/24V/48V DC→AC AC 110V/220V, 50Hz/60Hz, 100W~3000W

### Material

Generator Casing	Aluminum Alloy
Blades	Composite Material

Weight	60kg Apx.60kg	900kg Apx.900kg
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產品	500W	5KW
A	ø1.8m	ø5m
B	1.5m	4m
C	依安裝地決定	



## 風力發電機電力轉換儲存系統 Wind Power Turbine System

### ★ Output Option

1. DC : 12V/24V/48V
2. AC : 110V/220V  
50Hz/60Hz
3. 輸出功率 : 100W~6000W

### ★★ Batter Option

1. Flooded Lead Acid Battery
2. (AGM、GEL)  
Valve Regulated Lead Acid Battery
3. Lithium-ion Battery

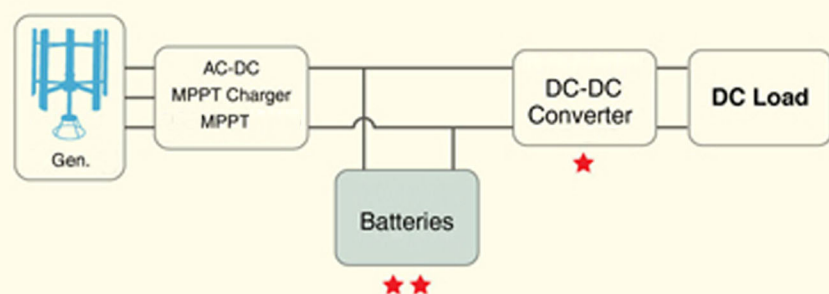
### ★★★★ Monitor Option

- Field : HMI  
Remote : PC GUI  
Communication :  
Ethernet / RS485 / RS232

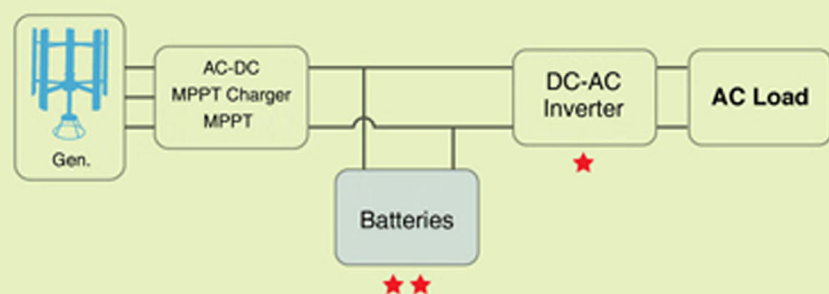


富田電機

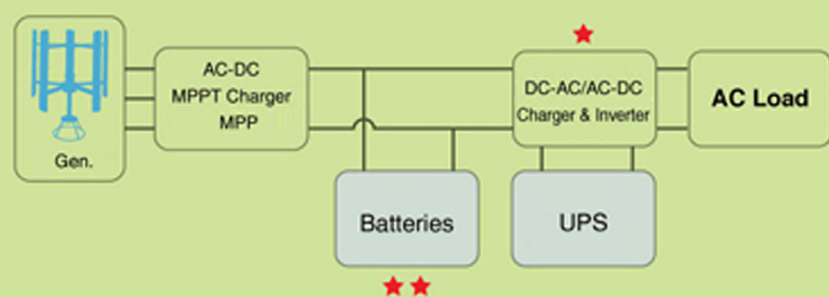
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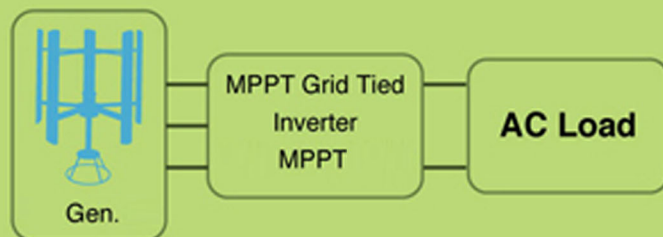
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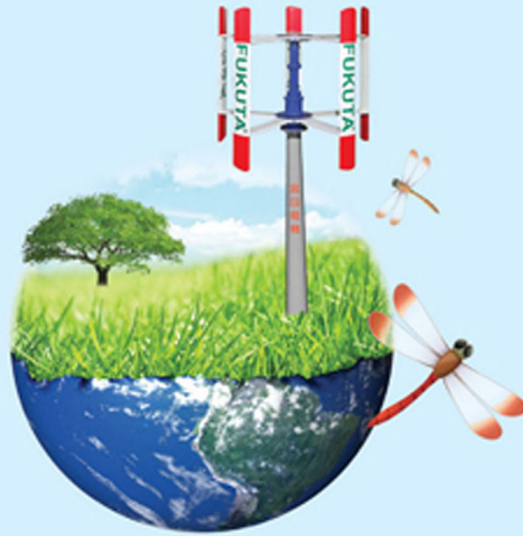


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# FUKUTA®

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ISO

**FUKUTA®**



**TEKTWIN**  
MARKETING CORPORATION



Very and Soon  
Spread  
to Move  
Far-Reaching



***Servo Motor***

INNOVATION / ENTHUSIASM / CREDIBILITY

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