



طاقة  
TAQETNA™

Datasheet

# Reyah – V5

State of Art  
Award-winning Technology



جائزة الإمارات للطاقة  
EMIRATES ENERGY AWARD



GIST

تجوير



**ROTOR**

Rotor diameter:  
3.75m



**OPERATING  
DATA**

Wind class:  
IEC III A / IEC S



**TOWER**

Hub heights:  
8m-12m



**BLADE**

Material:  
Reinforced  
Fiberglass



**GENERATOR**

Voltage: 220/380V  
Type: A permanent  
magnet synchronous  
generator

## Technical Specifications

Taqena's vertical wind turbine Reyah- V5 is a small-scale onshore wind turbine that is designed open the door for small scale wind industry around the globe. With 5-meter-long blades, the 5KW REYAH V5 enables Residential, Commercial and Industrial sectors to benefit out of this cutting-edge technology.

Model	Reyah V5	Generator and Magnet	Three phase permanent magnet ac synchronous generator- NdFeB
Rated power	5KW	Generator case	Carbon steel
Max power	5.5KW	Control system	Electromagnet/wind wheel
Generator Voltage	360v A.C.	Speed regulation	Electronically controlled
Frequency	50Hz/60Hz	Tower height (m)	Monopole Tower 8-12 m
Start-up wind speed	2.3 m/s	Rated Rotation Speed	150 rpm
Rated wind speed	12 m/s	Design Lifetime	20 Years*
Survival wind speed	35 m/s	Number of blades	3/5 blades
Wheel Height	4.0 m	Working Temperature	-10°C to 65°C
Wheel diameter	3.6 m	Blades material	Reinforced composite fiberglass
Top net weight	325 kg		

\* Under the condition of implementing regular maintenance

### Wind Speed/Power Curve

