



UGE 1000H 1.0 MW Wind Turbine

Wind Energy S.A.L is the sole distributor and representative of UGE wind turbines for the Middle East and North Africa Region.



Shortest Delivery Times

The core of our business model is the availability of our products. We make every effort to provide a solution for all of our customers. We place a premium on having some of the shortest delivery times in the wind energy industry – something that our skilled manufacturers work hard to support. If you have a narrow time frame, count on UGE to deliver.

Quality

The UGE 1000H is manufactured by an ISO9001 certified supplier to assure quality. Quality of our products is considered in everything we do.

Our dedication to the wind energy industry ensures we always deliver high quality products and customer service.

Furthermore, after we have completed our own quality tests, we have a third party complete its own tests to provide the client with further assurance. SGS (www.sgs.com) performs the pre-shipment inspection on the wind turbines with the following scope:

- * Visual inspection
- * Dimension control
- * Review of test/inspection records
- * Check of packaging

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Low Prices

Our customers receive our products at prices that are consistently among the most competitive in the wind energy industry – in addition to our already below average delivery times.

Versatility

Our UGE 1000H turbine is designed to meet the variable wind conditions or grid specifications at your location. We can tailor our products for a wide variety of sites, from different tower heights to varying blade lengths. The integrated cooling and heating systems ensure that our turbines can operate in all types of weather. The UGE 1000H can operate in temperatures as low as -20 C and as high as 40 C. temperatures while withstanding temperatures as low as -40 C and as high as 45 C.



Proven Technology

We provide the excellent performance by utilizing the most advanced technologies available. The UGE1000H is based on proven technology first installed in 1997 and further improved over the years. The turbines have individual pitch control to ensure they are not damaged in severe weather.

Installation

UGE products are easy to install thanks to industry standard components. UGE has partners with international wind turbine installation companies that take pride in offering competitively priced and high quality installation capabilities. Our combined skills and experience allow us to provide for any level of installation and ongoing operation and maintenance as required.

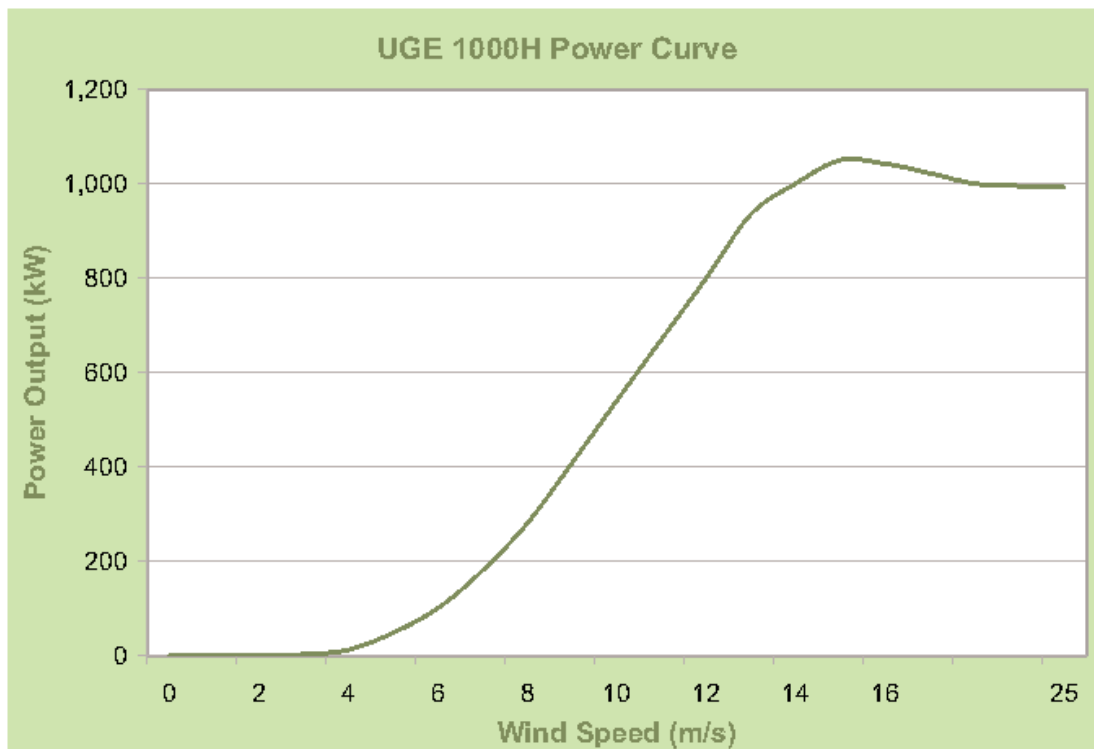


Functionality and Maintenance

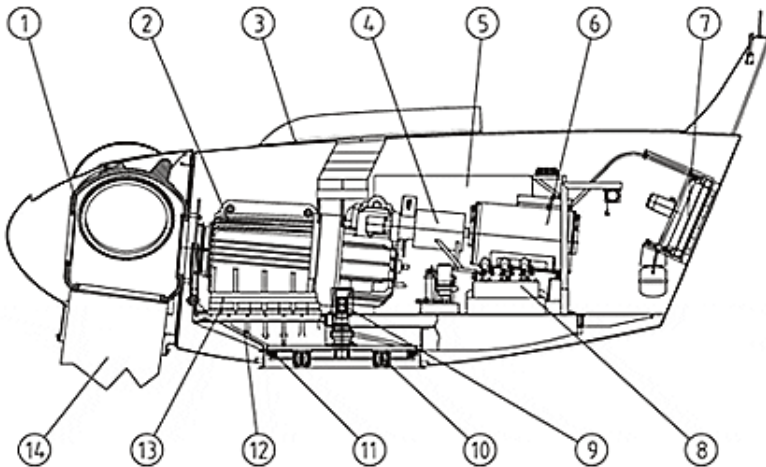
The UGE 1000H is designed to last at least 20-years. Maintenance is quick and easy thanks to a built in crane.

Noise Level

UGE Wind Turbines are among the quietest wind turbines in their class, measuring a sound level of 101.4dB(A) at a wind speed of 8m/s. The generator has Class H insulation to ensure noise is not an issue. The blades are engineered to minimize noise.



UGE 1000H 1.0 MW Wind Turbine Specifications



Hub	8	Pump Station
Gearbox	9	Yaw Drive
Nacelle Cover	10	Yaw Brake
Coupling	11	Yaw Bearing
Control System	12	Main Frame
Generator	13	Elastic Bearing
Cooling System	14	Blade

Technical Parameters

Rated Power: 1000kW
 Rated Voltage: 690V
 Rated Frequency: 50/60 Hz
 Operating Wind Speeds: 3.5 m/s - 25 m/s
 Rated Wind Speed: 13.5 m/s
 Type: IEC IIA, GL IIA
 Number of Blades: 3
 Rotor Diameter: 54.4m (26.4m blade length)
 Hub Height: 70m
 Direction of Wind Turbine: Upwind
 Rotor Rotation Speed: 21.95 RPM
 Power Regulating Mode: Stall
 Primary Brake: 3-blade tip aerodynamic brake
 Secondary Brake: Mechanical brake on high speed shaft
 Availability: At least 95%

Gearbox

Design: 1-stage planetary, 2-stage bevel gear
 Gear Ratio: 1:69.155 / 1:82.824
 Rated Power: 1100kW
 Lubrication: Forced w/ automatic heating and cooling

Generator

Type: Double-coil asynchronous generator
 Rated Power: 200/1000 kW
 Rated Voltage: 690V
 Rated Frequency: 50/60 Hz
 Rated Current: 193/909A

Rated Rotation Speed: 1510/1516 / 1212/1818 RPM
 Protection Level: IP54
 Insulation Level: H/F
 Lubrication Method: Automatic greasing
 Cooling Method: Automatic water cooling

Blade

Weight: 4.35mt per blade
 Material: Glass-fiber reinforced
 Tip-brake Control: Hydraulic control (auto/manual)

Yaw System

Type: Active and automatic control
 Yaw Bearing: Inner gear bearing
 Yaw Speed: 0.75 degrees
 Yaw Brake: Disc brake with dampener
 Largest Point of Rotation: 720 degrees

Control and Monitoring

Type: Microprocessor-based control system.
 Monitoring: Data RMON (Remote Monitoring)

Grid-connection

Power Factor Compensation: Capacity compensation
 Power Factor (COSφ): 0.95~1

Weights

Blades: 18.5mt
 Nacelle: 40.5mt
 Tower (68m): 88.8mt