



SUZLON

MODEL	S64-I.25 MW
OPERATING DATA	
Rated power	1250 kW
Cut-in wind speed	3.5 m/s
Rated wind speed	14 m/s
Cut-off wind speed	25 m/s
Survival wind speed	59.5 m/s
ROTOR	
Туре	3 Blades, Upwind / Horizontal axis
Diameter	64 m
Rotational speed at rated power	13.5 to 20.3 rpm
Rotor blade material	Epoxy bonded fiber glass
Swept area	3217 m ²
Power regulation	Active pitch regulated
GEARBOX	
Туре	I planetary stage / 2 helical stages
Ratio	I : 74.9
Nominal load	1390 kW
Type of cooling	Forced oil cooling lubrication system
GENERATOR	
Туре	Dual speed induction generator (asynchronous)
Speed at rated power	1006/1506 rpm
Rated power	300/1250 kW 250/1250 kW
Rated voltage	690 V AC (phase to phase)
Frequency	50 Hz
Insulation	Class H
Enclosure	IP 56
Cooling system	Air cooled
TOWER	
Туре	Lattice tower (hot dip galvanised) or
7,70	Tubular tower (corrision proof painting on inner and outer surface)
Tower height	54 m / 63 m / 72 m (variable as per requirement)
Hub height (including foundation)	Approximately 56.5 m / 65 m / 74.5 m (variable as per requirement)
BRAKING SYSTEM	7 Approximately 30.5 m / 65 m / 7 m 3 m (variable as per requirement)
Aerodynamic braking	3 Independent systems with blade pitching
Mechanical braking	Hydraulic fail safe disk brake system
YAW SYSTEM	riyuradılıcıları sare disk bilake system
	Active electrical vary mater
Type	Active electrical yaw motor
Bearing	Polyamide slide bearing with gear ring & automatic greasing system
Protection Protection	Cable twist sensor, proximity sensor
PITCH SYSTEM	2 to decrease to the decrease of the best construction from each blade.
Type	3 independent blade pitch control with battery backup for each blade
Operating range	-5 ° to +90 °
Resolution	0.1 ° to 10 °
CONTROLLER	Suzlon Control System with following salient features:
	- Park slave
	- Power output control / limitation
	- Reactive power control
	- Grid measurement
	- Grid measurement - Low voltage ride through (LVRT)
	- Grid measurement - Low voltage ride through (LVRT) - Weather measurement
	- Grid measurement - Low voltage ride through (LVRT) - Weather measurement - Time synchronization
	- Grid measurement - Low voltage ride through (LVRT) - Weather measurement - Time synchronization - Statistics
Wind Class	- Grid measurement - Low voltage ride through (LVRT) - Weather measurement - Time synchronization - Statistics
Wind Class Certification & Standards Quality System	- Grid measurement - Low voltage ride through (LVRT) - Weather measurement - Time synchronization - Statistics





The S64-I.25 MW has a well-suited ratio between rotor diameter and generator for most sites in a medium wind speed regime. The wind turbine concept is based on robust design with pitch-regulated blade operation, a three-stage gearbox with I390 kW rating and a safe peak load damping with a fluid coupling to the asynchronous induction generator. The turbine operation is efficiently controlled by the The turbine operation is efficiently controlled by the Suzlon controller. These technologies are all well-known in the wind power industry and have proven themselves. With more than I000 units of the I.25 MW turbines installed in very harsh and remote areas in India, the S64-I.25 MW wind turbine is designed to withstand the most extreme conditions and operate effectively.

BLADES

As all other Suzlon blades, the AE3 I blade is a fully integrated design. The blade manufacturing system from mould engineering to state-of-the-art Resin Infusion Moulding (RIM) is done in close co-operation between the Dutch design team and the manufacturing plants in India.

PITCH SYSTEM

The full-span blade pitching system is based on electrical motors with individual power backup which allows fast and efficient pitching of the blades. With a resolution of 0.1° and a special fast-pitching mode, the S64-1.25 MW allows optimal power output as well as fast and safe braking of the rotor.

GEARBOX

The design of the gearbox has always been paid special effort in Suzlon. The design philosophy is based on years of experience with wind turbines in harsh environments and the internal design standard well exceeds the industry standards. The power rating of the gearbox for the S64-1.25 MW is actually 1.39 MW. With the recent acquisition of Hansen Fansmission, Suzlon will also in the future secure in-house design and development of superior gearbox technology for the customer's benefit.

SERVICE AND MAINTENANCE

Suzlon has teams of trained wind farm technicians around the globe who focus on excellence in service, maintenance and monitoring. Our service technicians aim to maximise energy production from the wind, and ensure the turbines operate reliably and with minimal maintenance costs during their life span. The key emphasis is on maximizing availability and efficiency in operation thus providing ease of mind for our clients. Suzlon

provides intensive and continuous training programs for its wind farm technicians, both in and out of field. The expertise of highly respected and reputable industrytraining consultants ensure world class training to Suzlon'stechnicians and technical support engineers.

MANUFACTURING

Suzlon's manufacturing facilities for wind turbine generator components and rotor blades are currently located in India, China, Belgium and the USA. As part of Suzlon's strategic growth plans to significantly increase manufacturing capacity of all key turbine components, a number of new facilities are currently planned or under construction. This meets our objective to vertically integrate the entire supply chain, ensuring that Suzlon brings to the market the most cost efficient and reliable technology. It also enables us to control the supply chain to secure quality, volume and growth, as well as deliver long term service support.

SUZLON END TO END SOLUTIONS SINCE 1995

The End-to-End solution pattern is built on Suzlon's expertise in technology, processes and thorough understanding of the Indian wind energy market. It is a unique combination of proven technology and a bundle of value added services. This successful and proven business model includes everything - from arranging land; to equipment supply & EPC; to nodal agency clearances; to life-cycle operations & maintenance of project. There is no need for customer to engage manpower or time on the wind power project. Suzlon brought about a paradigm shift in India's wind energy market with End-to-End solutions. It made setting-up wind energy projects simple, hassle-free and enabled hundreds of Indian customers including small/medium/big enterprises, Indian and multinational corporates, public sector companies and even individuals set-up their own wind energy projects with confidence and ease.

Site Identification and Land Acquisition	Infrastructure Development
Supply of WTG & Accessories	Assistance for loans processing
Erection & Commissioning	Assistance in Liaison & Clearances
Comprehensive Operations & Maintenance	Power Evacuation















Suzlon Sales Offices

Australia

Suzlon Energy Australia Pty. Ltd.
Level 42, 80 Collins Street Melbourne
Victoria 3000 Australia
Tel.: +613 8660 6501
Email: info-au@suzlon.com

Brazil

Suzlon Energia Eólica do Brazil Ltda Rua Eduardo Sabóia, 399, Papicú CEP 60175145, Fortaleza, Ceará, Brazil Tel.: +55 85 3265 1308

China

Suzlon Energy (Tianjin) Ltd.
Beijing Branch
Room 1808, NCI Tower, A12
Jianguomenwai Avenue
Chaoyang District, Beijing, 100022, China
Tel.: +86 10 65695688

EMEA# + CASA* Sales HO

Suzlon Wind Energy A/S
Bredskifte Allé 13
8210 Århus V
Denmark
Tel.:: +15 8943 8943

India

Suzlon Energy Ltd. 104-106, Delta Wing Raheja Towers, Anna Salai Chennai 600 002, India Ph.: +91-44-28602345 - 49 Email: info-india@suzlon.com

Suzlon Energy Ltd. 9th Floor, Eros Corporate Tower Nehru Place New Delhi I 10 019, India Ph.: +91-11-41805501 / 4180550 Email: info-india@suzlon.com

Suzlon Energy Ltd.

I L & F S Financial Centre, 6th Floor
East Quadrant, Bandra Kurla Complex
Plot No. 22, 'G' Block, Bandra (E)
Mumbai 400 051, India
Ph.: +91-22-26533737 / 66393200
Empily in Fig. 1941-98-1941

Suzlon Energy Ltd.
5th Floor, Godrej Millennium
9 Koregaon Park Road
Pune 411 001, India
Tel.: +91 20 4012 2000

Italy

Suzlon Wind Energy Italy S.r.I Viale Città d'Europa, 68 I 00 I 44, Rome, Italy Tel.: +39 06 526248 I Email: info@suzlon.it

North America

Suzlon Wind Energy Corporation 8750 Bryn Mawr Ave., Ste. 720 Chicago, IL 6063 I, USA Tel.: + 1 773 328 5077 Enail: info-porthamerica@suzlon or

Portugal

Suzlon Energy Portugal, Lda. Av. do Forte, No 3 Edifício Suécia - Piso 3 – Sala 3.38 2794 038 Carnaxide, Portugal Tel.: +351 21 4184565 Email: info-europe@suzlon.com

Spain

Suzlon Wind Energy España S.L.U Paseo de la Castellana 155, 2°A 28046 Madrid, Spain Tel.: +34 915 794 727 Email: info@suzlon.es

Europe, Middle East, Africa * Central Amercia and South America

