

## WIND ENERGY CONVERTER CHARACTERISTICS

### E-92

<b>Rotor</b>	
Type	E-92
Rotor diameter	92 m
Swept area	6648 m <sup>2</sup>
Power regulation	Pitch
RPM	5 – 16 min <sup>-1</sup>
Cut out wind	28 – 34 m/s (ENERCON storm control)

<b>Gear Box</b>	
Not applicable	No gearbox

<b>Blades</b>	
Manufacturer	ENERCON
Blade length	43,8 m
Material	GRP (Epoxy)
Lightning protection	included

<b>Generator</b>	
Manufacturer	ENERCON
Nominal Power	2350 kW
Type (model)	Synchronous, direct-drive ringgenerator
Protection classification	IP 23
Insulation class	F

<b>Controller</b>	
Manufacturer	ENERCON
Type	microprocessor
Grid connection	Via ENERCON inverter
Remote communication	ENERCON Remote Monitoring System
UPS	included

<b>Braking System</b>	
Aerodynamic brake	<ul style="list-style-type: none"> <li>- three independent blade pitch systems with emergency supply</li> <li>- rotor brake</li> <li>- rotor lock</li> </ul>

<b>Tower</b>	
Hub Height	85 – 138m (tower and foundation options)

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