

X35q

ENDURANCE X SERIES

Endurance X35q 180 kW

The X35q makes more sites work for wind

Using the same strong design as the X29, the X35q uses a large, slowly-turning rotor to maximise production on constrained sites.

Using a 180 kW generator the X35q fits into sites with low interconnection limits and often for a much lower connection cost.

The low rotor tip speed enables the quietest operation in its class. This allows even small sites to be candidates for Endurance X Series wind turbines.

At the heart of the **Endurance X35q** is the time-tested X Series design. With a proven performance record spanning over 25 years, the original design has been refined with hundreds of engineering improvements and technical advances.

The X35q is ideal in rural locations for businesses in dairy, crop and animal husbandry; for schools and public buildings and a range of industrial applications.

If your site is constrained by size or grid connection, the X35q could be right for you.

ENDURANCE X35q PERFORMANCE ADVANTAGES

- > MAKES MORE SITES WORK FOR WIND
- > EXTREMELY QUIET OPERATION
- > VIABLE ON SMALL SITES
- > COMPATIBLE WITH LIMITED GRID CAPACITY



DESIGNED
IN DENMARK



ENGINEERED
BY ENDURANCE



BUILT IN BRITAIN



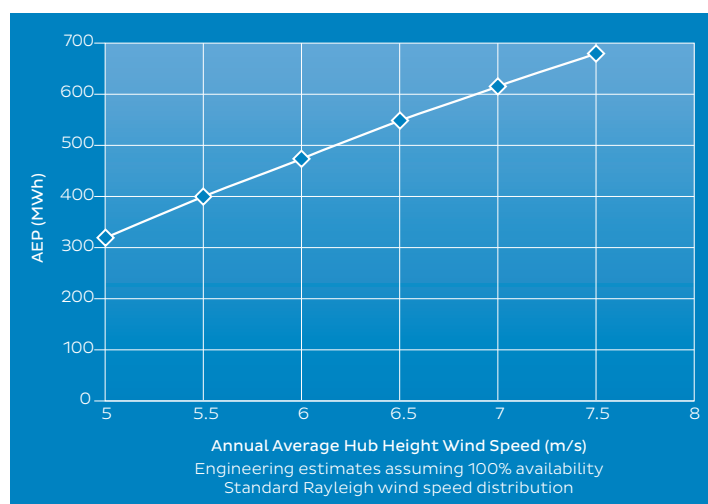
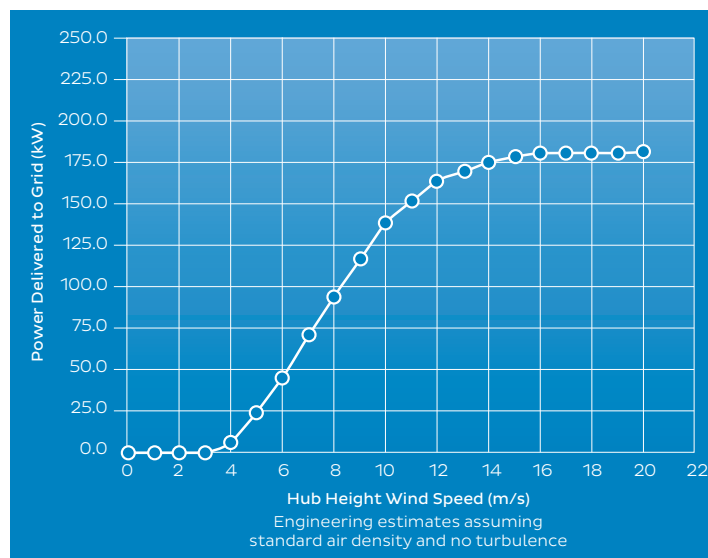
FOUR NEW
X SERIES
CONFIGURATIONS

Endurance[®]
wind power

X35Q

ENDURANCE X SERIES Endurance X35Q 180kW

X Series Specs	X35Q 180kW
Configuration	Three blade, horizontal axis, upwind
Rated Power (kW)	180
Application	Direct Grid Tie
Rotor Speed (RPM)	25.1
IEC 61400-1 Turbine Class	IIIA
Maximum Average Wind Speed (m/s)	7.5
Survival Wind Speed (m/s / mph)	52.5 / 117
Cutout Wind Speed (m/s)	20
Rotor Diameter (m)	35
Swept Area (m ²)	962
Blade Material	Fiberglass composite
Power Regulation	Stall control
Generator Type	Asynchronous, Induction
Rated Capacity (kW)	180
Configuration	3-phase, 400 VAC, 50 Hz
Main Brake System	Turnable Blade Tips
Secondary System	Fail-Safe mechanical brake
Automatic Shutdown triggered by	High wind speed, grid failure, over-speed, all other fault conditions
Controls	Programmable logic controller (PLC) ERIC™ Endurance Remote Interface Centre
Available Hub Heights (m)	30.5 and 40.2
Tower Type	Free Standing Monopole, Internal Tower Ladder, Safe climbing system
Warranties	Standard – 5 year parts and labour Optional - Performance warranties on completion of manufacturer testing



Annual Average Hub Height Wind Speed (m/s)	Annual Energy Production (MWh)
5.0	325
5.5	400
6.0	475
6.5	548
7.0	616
7.5	681

DISCLAIMER: while statements made regarding the performance of Endurance products and comparisons to other manufacturers' equipment are based on the cited data and the information of Endurance at the time of publishing, such data, information, test conditions and other factors may change at any time without notice, and therefore Endurance does not represent or warrant that any such statements are necessarily accurate.

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