

X35

ENDURANCE X SERIES

Endurance X35 225 kW

The most productive wind turbine in its class.

In the most common wind conditions no machine in its class outperforms the X35. Its extremely large rotor maximizes production, even in less than perfect sites with modest wind.

At the heart of the **Endurance X35** 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 **Endurance X35** achieves a very low cost of energy by providing tremendous output with modest investment.

The X35 is ideal in rural locations for businesses in dairy, crop and animal husbandry; for schools and public buildings and a range of industrial applications.

Maximize the potential of your site with an **Endurance X35**.

ENDURANCE X35 PERFORMANCE ADVANTAGES

- > MOST PRODUCTIVE IN ITS CLASS
- > EXTREMELY LOW COST OF ENERGY
- > HIGHEST OUTPUT ON SITES WITH MODEST WIND
- > MAXIMIZES THE POTENTIAL OF YOUR SITE



DESIGNED
IN DENMARK



ENGINEERED
BY ENDURANCE



BUILT IN BRITAIN



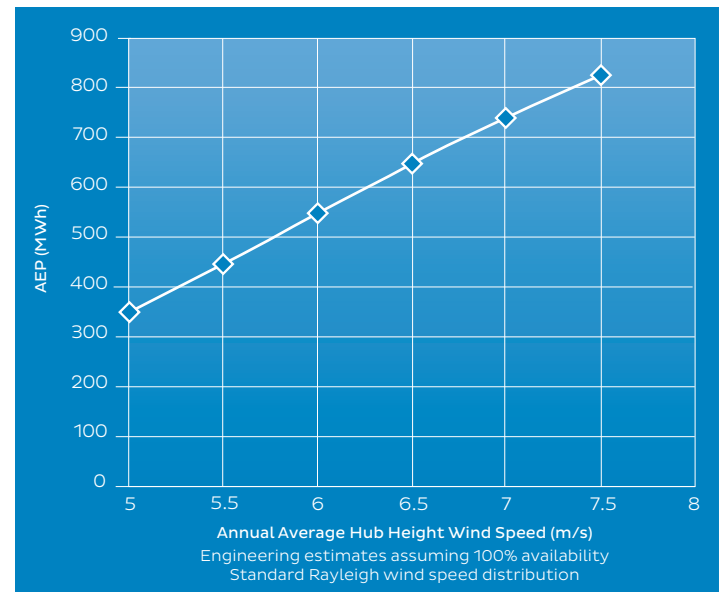
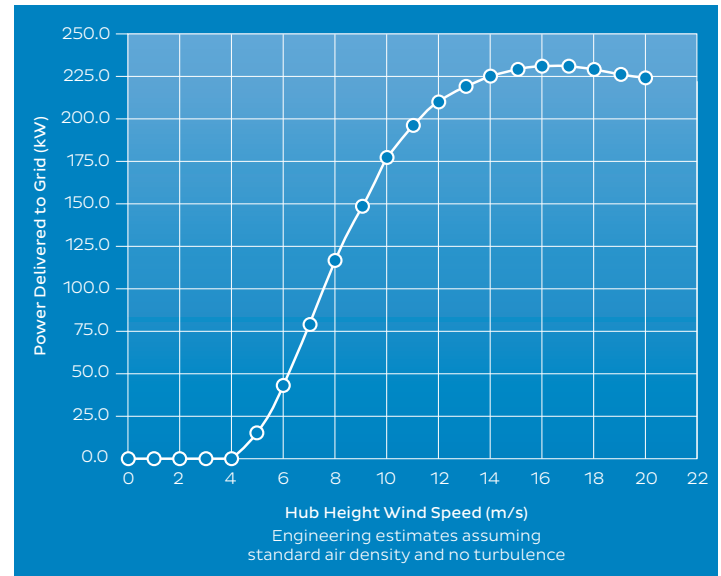
FOUR NEW
X SERIES
CONFIGURATIONS

Endurance[®]
wind power

X35

ENDURANCE X SERIES Endurance X35 225 kW

| X Series Specs | X35 225kW |
|----------------------------------|---|
| Configuration | Three blade, horizontal axis, upwind |
| Rated Power (kW) | 225 |
| Application | Direct Grid Tie |
| Rotor Speed (RPM) | 30.8 |
| 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) | 225 |
| 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 | 333 |
| 5.5 | 451 |
| 6.0 | 550 |
| 6.5 | 646 |
| 7.0 | 738 |
| 7.5 | 823 |