

The L100 is a 2.5 MW wind turbine designed for IEC class Illa locations. The smart and slim design, particularly in combination with our Modular Steel Mast (MST), make this turbine highly profitable. The modular structure of this tower is able to reach a 135 metre shaft height, which significantly improves the wind conditions, resulting in better yields. In addition, the L100-2.5MW is highly suitable for placement on difficult to reach locations with limited space on site. Due to Lagerwey's experience and expertise, single blade lifting is also not a problem.

Experience

Lagerwey is a Dutch manufacturer of direct drive wind turbines. We are building on 37 years of experience in the development of innovative wind turbines. More than 1,200 Lagerwey turbines have been installed world-wide and various technological spin-offs can be found in other products on the market. Our objective is to continuously reduce the cost price per kWh of wind energy.

Tower/crane - combination

The L100-2.5MW can be built at great height (135m) by using our smart modular tower, the MST. This system consisting of steel plates that are assembled on site, makes it possible to create ever higher towers against low additional costs. The modular tower is also expanded with a unique crane. This Lagerwey crane will simplify the wind turbine's installation and reduce the cost price per kilowatt hour even more. The L100 is also available with a Tubular Steel Tower, by means of which a shaft height of 99 metres can be achieved.

Generator

Thanks to smart design, our 'Direct Drive Permanent Magnet' generator no longer requires large cooling systems and gear boxes. The efficiency of the generator is very high, approximately 97% at both full and partial load. As our generator contains few moving parts, significantly less wear takes place in comparison to other wind turbines. This will make the generator very robust and highly suitable for demanding circumstances in both warm and cold climates.

We unburden our customers

Our wind turbines are delivered turn-key and are manufactured at our own factory in the Netherlands. Our engineering, production and service departments ensure high quality in design and production, great reliability and optimum performances. We unburden our customers and will offer you a unique approach in which we will work together at a successful wind energy project.





GENERAL

Nominal power Rotor diameter IEC class

Turbine concept

2.5 MW 100 m IIIA

Direct drive, variable speed, variable blade angle adjustment, full power

converter

ROTOR

Type Rotor surface Power control Blade material

Lightning protection

3 blades, upwind rotor

7.845 m²

Electric pitch control

Glassfiber reinforced polyester Integrated in the blade,

in direct contact with construction

GENERATOR

Type

Lagerwey multi pool synchronous

Field generation Main bearing Cooling

Permanent magnet Double row of conical bearings Based on air flow around the outside of generator (cooling fins)

SAFETY SYSTEM

Type

3 independent systems with emergency power provision

CONVERTER

Type Control system Cooling

Full power AC-DC-AC IGBT-Control Water-cooled

OPERATIONAL DATA

Cut in wind speed Cut out wind speed Power factor

2.5 m/s 25 m/s Regulated

OTHER

Service brake system

Safeguard

Standard Rotor blade, yaw motor

and drive

Lubrication system

Automatically controlled bearing and gear lubrication

TOWER

Type

MST - Modular Steel Tower or TST - Tubular Steel Tower

Shaft height

MST - 99 / 135 m TST - 75 / 99 m

OPTIONS

Service lift Rescue module gondola Noise reduction Obstacle light/marking Ice management system Cast shade regulation

Standard Standard Optional Optional Optional Optional

