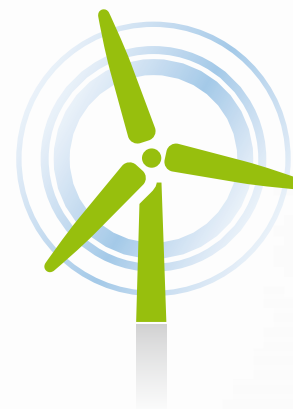


**KONČAR**



K104-2,5

# WIND TURBINE



**Ninety years of experience in production of AC power generators (asynchronous and synchronous), transformers, high and low voltage switchgears, along with vast experience in the field of power electronics and control systems has made it possible for KONČAR to enter the world of wind energy.**

Willing to adopt new technologies and to act environmentally friendly using its own human and physical resources KONČAR has developed 1 MW and 2,5 MW wind turbines, thus joining a small group of wind energy producers in the world.

# Wind turbine K104-2,5

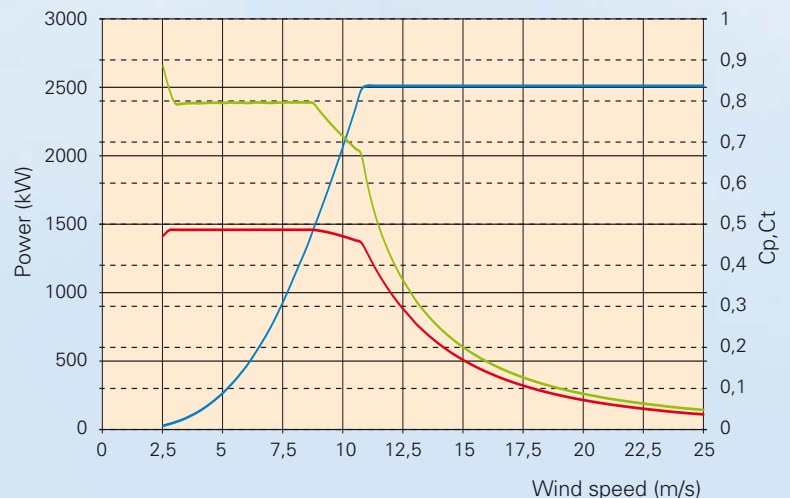
## OPERATION DATA

Rated power	2500 kW
Hub height	80 m
Power regulation	variable speed - pitch control
Cut - in wind speed	2,5 m/s
Rated wind speed	11,5 m/s
Cut - out wind speed	25 m/s
Survival wind speed	59,5 m/s
<b>Generator</b>	synchronous direct drive variable speed
<b>Tower</b>	tubular conical steel
<b>Braking system</b>	3 control pitch systems with emergency supply and rotor brake
<b>Rotor</b>	
Orientation	upwind
Number of blades	3
Blade material	fiberglass (reinforced epoxy) with integral lighting protection
Diameter	103,8 m
Swept area	8495 m <sup>2</sup>
Speed	5-15 rpm
Direction of rotation	clockwise
Pitch control	3 blade pitch systems with emergency supply
<b>Grid connection</b>	AC-DC-AC converter
<b>Control</b>	microprocessor control system
<b>Yaw system</b>	active with damping



K104-2,5 power and power coefficient curve ( $\rho=1.225 \text{ kg/m}^3$ )

— Power P (kW)  
— Power coefficient Cp  
— Thrust coefficient Ct



## KONČAR

KONČAR - Power Plant and Electric Traction Engineering Inc.

Fallerovo šetalište 22, 10000 Zagreb, Croatia

phone: +385 1 3655 813

fax: +385 1 3667 515

e-mail: info@koncar-ket.hr

www.koncar-ket.hr

We reserve the right to change technical characteristics without notice.