



they don't cost the earth

North Energy Systems

Intelligent Controllers



TOFTS OF TAIN, CASTLETOWN, CAITHNESS KW14 8TB
[TEL & FAX +44\(0\)1847 821418](tel:+441847821418) Email – info@northenergysystems.com
www.northenergysystems.com



Intelligent Controller

NES 3KW,5KW, 7.5KW, 10KW, 20KW wind turbine can be supplied with the intelligent type controller, the functions of which are shown below:

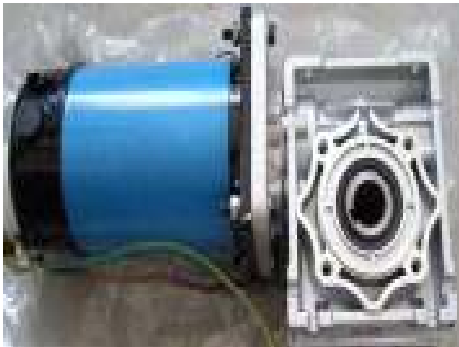
1. Full automatically intelligent charging with over-voltage, wane-voltage protection, controller can automatically start the charging device when it tests the battery bank at the wane-electric situation; or, the controller will cut off the charging when the battery bank is fully charged.
2. This series controller with LCD screen, which can display the wind speed, voltage , wind direction for a given period and provides the user with easy to control and protection for their wind system.
3. Automatically tracking wind direction : this controller has installed an intelligent CMOS chip for tracking wind direction , the device connected to the dog vane on top of turbine housing , hence , the controller can receive the signal from the dog vane , then the controller will send an order to the serve motor (gearbox) , the serve motor will adjust the blades running direction within 12 seconds
4. This series controller can also adjust the turbine running speed according to the wind speed that means the serve motor will adjust the turbine low running if the wind speed is fast ; but if the wind speed is too fast and in excess of the security speed the serve motor will adjust the blades yaw to avoid the strong wind damage on the blades and turbine or even make the turbine stop running (user also can directly press the push button “stop” on the controller operating panel)
5. Dump load function: this controller has a large resistance which can automatically consume extra electricity when the battery bank is fully charge and without any load to protect the complete system

Inside the Intelligent Controller





Rating power (W)	3000W	5000W	7500W	10000W
Storage battery (V)	240V DC	240V DC	240V DC	240V DC
Working temperature	Temperature-10°C-+40°C Temperature≤80%			
Input voltage	3phase 0-330V AC			
Output voltage	240V DC±20%	240V DC±20%	240V DC±20%	240V DC±20%
Safe Ampere (A)	35A	48.5A	52A	55A
Efficiency	91%	91%	91%	91



TOFTS OF TAIN, CASTLETOWN, CAITHNESS KW14 8TB
TEL & FAX +44(0)1847 821418 Email – info@northernenergysystems.com
www.northernenergysystems.com