



Front view



Side view

Reliable, efficient and faster energy: This wind charge controller regulates the power from the wind turbine to the battery bank and the power from the battery bank to the load(s) and is as such the most important system component. It protects the battery against the damaging effects of over-charge and excessive discharge by keeping the charge/discharge cycle within prescribed limits. The special charge regulating technique enables a more efficient use of the available energy and the battery is charged faster compared to conventional controllers.

A combined external battery voltage and temperature sensor is standard.

Features

- Advanced temperatures compensated boost and float battery charge process
- Battery overcharge and deep discharge protection batteries
- Reverse polarity protection on wind turbine input and on battery connection and voltage / temperature sensor
- Terminals for voltage / temperature sensor
- Low voltage and general alarm relays (optional)
- Load output with SOC (State of Charge) dependent switch off limit (excessive discharge protection)
- Over-voltage protection for load due to system high voltage
- Over-load protection for load output

Advantages

- PWM (Pulse Width Method) charge regulating technique
- Modular concept (CCU-IV range)
- Test switch for system diagnostic
- Separated build in control signals for powering alarm switching relays

Electrical Specifications	
Model / Type:	24V
Nominal system voltage	24 Vdc
Nominal wind turbine input current	110 A
Nominal output current to load	25 A
Maximum output current to load	50 A (20 sec.)
Maximum wind turbine input current	110 A
Maximum wind turbine input voltage	50 Vdc
Maximal battery input voltage	40 Vdc
Typical operating current consumption	10 mA
Typical settings ⁽¹⁾	
System high voltage (alarm) / load disconnect?	29,50 V
Pre-warning low voltage (alarm)	23,60 V
Disconnect output low voltage (alarm)	23,0 V
Temperature compensation	-5mV / °C / cell

⁽¹⁾ Standard settings for VRLA batteries, settings can be changed at factory for other batteries

General specifications	
Model / Type:	24V
Operating temperature	-10°C to +55°C
Operating relative humidity	5% to 95% non condensing
Storage temperature	-30°C to +70°C
Construction	open frame
Mounting	Indoor
Unit weight	±0,8 kg
Dimensions (H x W x D)	21,6 x 8 x 14,7 cm

Features & Options	
Meter Unit	For measuring, displaying: wind turbine input current, battery current/voltage, load current/voltage
Output Relay	To switch larger output currents
Output Regulator	To regulate the output current and voltage to the load(s)
Voltage limiter	To keep the output voltage below adjustable limit
External battery / temperature sensor	To measure battery voltage and temperature for an optimum charge factor to ensure a maximum battery efficiency and a long lifetime