

PRODUCT INFORMATION

GREENCONTROLLER 140/30

SOLAR/WIND CHARGE CONTROLLER WITH MPPT (MAXIMUM POWER POINT TRACKING)

ECS

...because we enjoy to accomplishing the impossible

The highly developed **GreenController Charge Control Unit** by ECS is equipment with Maximum Power Point Tracking so that the maximum performance level of the solar module is constantly being determined. By voltage sensor connections and a temperature sensor the charging parameters are precisely identified in order to allow the highest possible duration of the battery. It is optimal for off-grid-systems with up to 1400 W module power. With its water and dust proof case and is excellent protection functions it is suitable to be used in all areas.







Find prices and further information on our website www.ecs-online.org

Contact us per phone or mail +49 6502 - 40 11 11 E-Mail: mail@ecs-online.org

Product features and Advantages

By our MPPT-Technology you achieve:

- Fast and precise tracking of the maximum performance level
- Excellent performance even with little insolation or sunset
- Cost savings with same performance due to less and smaller solar modules needed

Network- and Communication features

- RS-485: allows communication between several devices on a bus
- Communication with BMS possible (for lithium battery systems)
- ♦ USB and Ethernet with optional converter

Display

- ♦ Graphic LCD display
- ♦ Six LEDs to show operating status
- ♦ Wide range of display options (e.g. battery voltage, state of charge, battery current, watt-hour-meter for power input and output, etc.)

Further Features

- ♦ Support for Lithium (LiFePO4, LiFeYPO4, LTO), NiCd and lead-acid batteries
- ♦ Battery voltage up to 64 volt
- ♦ Water— and dustproof
- ♦ Support for cable size up to 35mm2
- ♦ Data logging on SD Card
- ♦ Low internal consumption
- ♦ Operating with full performance without losses up to 60 °C
- ♦ Comprehensive setting of battery charge parameter
- Four-phase charge with equalize feature (all parameter adjustable)
- Four user defined input and output ports each (e.g. for deviating management)
- Alarm sound in critical operating conditions

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Electronic Construction Service Isseler Str. 49 54338 Schweich Germany



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Mechanical Data

- **♦** Dimensions
- ♦ Weight
- ♦ Maximum cable size
- ♦ Cable glands
- ♦ Protection class

Electrical Data

- ♦ Maximum battery current
- ♦ Maximum module current
- ♦ Maximum module output
- ♦ Maximum efficiency
- ♦ System nominal voltage
- ♦ Maximum solar off-load voltage
- ♦ Operating voltage range of battery
- ♦ Maximum own consumption
- ◆ Transient overvoltage protection (output + battery + input))

Charging the battery

- ♦ Charging algorithm
- Phases of battery charging
- ♦ Temperature equalization
- ♦ Nominal value (adjustable)

Operating conditions

- ♦ Ambient temperature
- ♦ Storage temperature
- ♦ Air humidity

Equipped with protection against

- ♦ Excess temperature
- ♦ Overload-charge outlet
- ♦ Overload-solar input
- Reverse current during night
- ♦ Deep discharge protection, overcharge
- Lightning surges and impulse voltage

Communication Accesses

- ♦ RS-485
- USB (optional with converter)
- Ethernet (optional with converter)

310 mm x 270 mm x 110 mm 3 kg Power terminal up to 35 mm² Control terminal up to 1,5 mm² 6 x M20 und 3 x M12 IP54

30 A 30 A 360 W at 12 V and 720 W at 24 V 1400 W at 48 V 96 to 99 % 12 V to 48 V (e.g. 6 - 24 Pb cells, 4 - 16 LiFePo4 cells) 140 V 10 V to 64 V 0,65 W 1500 W

Four-phase charge

Bulk, Absorption, Float, Equalize

Coefficient (adjustable):

Default: -5mV/°C/ (25° reference) **Range:**

-55 °C to + 125 °C

Absorption, Float, Equalize, HVD, LVD, LVD-Reconnect

- 20 °C to + 60 °C
- 55 °C to + 100 °C

100 %, non-condensing

Inputs and outputs

- ♦ PV-Module, battery, load
- ♦ RS485
- ♦ Temp. sensor
- ♦ Voltage sensor
- ♦ Four analog or digital input ports
- 4x OC transistor switching output (50 V / 0,5 A)

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