

PRODUCT INFORMATION

GREENCONTROLLER 140/30 OF

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 a deductible mountable display it is especially for installing in control cabinets.







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
- ♦ Batterie voltage up to 64 volt
- ♦ Support for cable size up to 35 mm2
- ♦ 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)
- Deductible mountable display (e.g. in control cabinets)
- 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
- 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)

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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)

260 mm x 210 mm x 80mm

power terminal up to 35 mm² Control terminal up to 1,5 mm²

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 LiFePb4

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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