



BATTERY CHARGING SYSTEMS





» SUPER CHARGING – READY FOR THE NEXT TASK.«

Steca develops charging and testing methods in collaboration with leading battery manufacturers and institutes in order to make your batteries last longer. Our expertise in the field of battery charging systems combines charging, testing and assessing commercially available batteries and special designs.

CONTENT

4 STECA



6 SYSTEM OVERVIEW

8 Battery chargers



10 Equipment



12 PRODUCTS

14 Wall and panel mounted units



27 19-inch units



28 Tabletop units



30 Units for heavy-duty operating conditions



34 OTHER PRODUCT AREAS



Exclusion of liability

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»WE ARE THINKING OF TOMORROW.«



Environmental protection in series



»Simple business processes, fair partnerships and transparent communication contribute to our joint success.«



Services and production have an ecological future at the Memmingen electronics specialist company Steca. The company makes a worldwide contribution to reducing power consumption and allowing alternative energy sources to be used efficiently by providing high-performance products.

Steca has established a wide base in order to achieve these goals. The company offers electronic services for residential, automotive, agricultural, environmental, traffic and building technology and also for the industrial and medical sectors. The company also develops products for the environmentally friendly use of solar energy under the brand name of Steca. Steca Elektronik is one of the few manufacturers that cover all three segments of the solar market: PV grid feeding

systems, off-grid PV systems and solar thermal systems. Steca also produces battery charging systems that extract the maximum potential from the energy storage system.

Steca sets a good example in its own production methods: the company uses only manufacturing processes that conform to strict ecological criteria. Steca is actively involved in research projects for efficient energy use and climate protection. In 2007, the German federal government therefore listed Steca as an authority for energy generation in the environmental technology atlas „Green Tech made in Germany“.

Steca's environmental policy is based on sustainability and environmental compatibility, with a view to providing services and producing products for an ecological future.

The company considers the whole value-added chain from this perspective and also involves its suppliers and customers. Steca is certified in accordance with ISO 14001:2004 and organised in accordance with the EU Environmental Management and Audit Scheme.



Full power for you: Management board Michael, Dietmar and Peter Voigtsberger

» PLANNING AND INSTALLATION MEETING YOUR NEEDS.«

From planning to installing an individually tailored battery charging system, we are your competent partner. We realise systems for stationary applications such as charging rooms, charging cabinets and charging containers just as reliably as mobile supply systems and charging stations.



SYSTEM OVERVIEW

Battery chargers



Equipment





Depot supply systems for bus depots and fire stations

Battery chargers:



19-inch units



Units for heavy-duty operating conditions



Wall-mounted and tabletop units



Systems:

Mobile charging points: warning trailers, trolleys and supporting frames



Charging rooms

SYSTEM EXAMPLES

Systems for mobile use

Depot supply systems, mobile charging points and driverless transport systems are examples of mobile applications of Steca charging systems.

Systems for stationary use

Examples of stationary applications of Steca charging systems include charging rooms, charging cabinets and charging containers. Areas of application include motorway and street maintenance areas, fire brigades, car factories and applications where batteries have to be charged frequently.

Steca plans and installs charging rooms, charging cabinets and charging containers according to your requirements.

Charging batteries in charging cabinets carries the advantage of not having to ventilate the entire room, but just the cabinet itself.

A charging container offers the option of making a charging room semi-mobile. They are used on building sites where the container is used at a fixed location over a period of time.



Charging cabinets



Driverless transport systems



Charging containers



Overview of devices:



EQUIPMENT

To operate your system safely

For the safe operation of your system Steca offers a wide range of equipment such as charging posts, cable and hose retractors, connections and plug systems, distributors, ventilation and accessories.

For further accessories, please visit our check list for your planning at: www.steca.com/checklist



Connections, plug systems and accessories

Ventilation



Charging posts



» ENERGY RECHARGING FOR YOUR APPLICATION.«

The products we offer range from reasonably-priced single charging units via modular charging devices with microcontrollers right through to computer-controlled charging and electric power supply programs. As well as the chargers themselves, Steca supplies you with planned and installed charging systems for mobile use, for stationary use and all the equipment required to operate them safely. All Stecamat chargers are connectible via an optional interface and can be integrated into a data processing system. Customised versions are available on request.



PRODUCTS

Wall and panel mounted units



19-inch units



Tabletop units



Units for heavy-duty operating conditions



Stecamat 860

Processor-controlled charger for lead-acid batteries

The Stecamat 860 battery charger is available in a range from 12 V to 48 V with a rated power of 720 W to 1,080 W in a sealed casing. The processor-controlled charging process ensures gentle and rapid charging of your battery. The Stecamat 860 also enables the processing of damaged or totally discharged batteries, ensuring long service life. A LED provides rapid information on the state of charge.

The wide range of features and made-to-measure solutions for your application requirements make for high flexibility of use. This and the easy handling of the device make for trouble-free operation.

Product features

- IP 65 jet waterproof case
- Half the charging time compared to simple, non-controlled chargers with the same rated current
- Optimal for charging batteries with liquid electrolyte and solid gel / absorbed electrolyte (AGM)
- Suitable for totally discharged batteries
- Constant battery operational readiness through integrated trickle charge
- Ready for operation in just a few minutes
- Charging below the gassing voltage
- Optimal charging of damaged batteries
- Individually programmed upon request

Electronic protection functions

- Protection in the case of wrong or damaged batteries
- Battery overcharge protection
- Charger output protected against short circuits, reverse polarity and overvoltage

Display

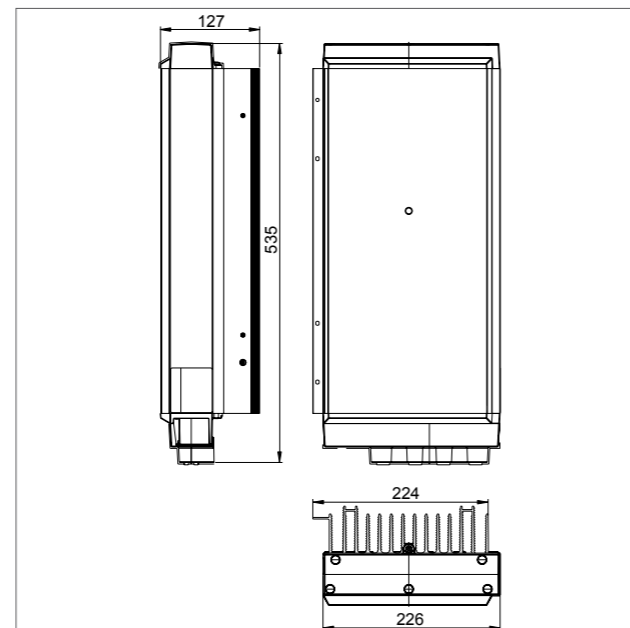
- Multi-coloured LED shows operating statuses

Operation

- Mains grid switch

Technical data				
Charging rated voltage	12 V	24 V	36 V	48 V
Charging current	50 A	35 A	25 A	18 A
End-of-charge voltage	14.4 V	28.8 V	43.2 V	57.6 V
Trickle charge voltage	13.8 V	27.6 V	41.4 V	55.2 V
Characteristic curve	UoIUoIU			
Grid voltage	230 V AC ± 10 %			
Grid frequency	50 Hz			
Mains electricity	3.7 A (230 V)	5.5 A (230 V)		
Discharge current during grid failure	1 mA			
Protection class	I			
Casing / ingress protection	aluminium / plastic, IP 65			
Ambient temperature	-40 °C ... +60 °C			
Cooling	convection			
Dimensions X x Y x Z	226 x 535 x 127 mm			
Weight	approx. 11.5 kg			
Options	fault messaging, IO card, data communication card, Steca ventilation system in accordance with EN 50272			

Technical data at 25 °C / 77 °F



Stecamat 861

Processor-controlled charger for lead-acid batteries

The Stecamat 861 battery charger is available in a range from 12 V to 48 V with a rated power of 720 W to 1,080 W in a sealed casing. The processor-controlled charging process ensures gentle and rapid charging of your battery. For individual adjustment of current, voltage, time and the ideal monitoring of your battery, the Stecamat 861 battery charger has a selection of preset battery profiles and the option of entering new battery profiles. The Stecamat 861 also enables the processing of damaged or totally discharged batteries, ensuring long service life. A backlit display provides rapid information on the state of charge.

The wide range of features and made-to-measure solutions for your application requirements make for high flexibility of use. This and the easy handling of the device make for trouble-free operation.

Product features

- Besides preset battery profiles there is the option of entering new battery profiles
- IP 65 jet waterproof case
- Half the charging time compared to simple, non-controlled chargers with the same rated current
- Optimal for charging batteries with liquid electrolyte and solid gel / absorbed electrolyte (AGM)
- Adjustable rated capacity determines the charging current
- Suitable for totally discharged batteries
- Constant battery operational readiness through integrated trickle charge
- Ready for operation in just a few minutes
- Charging below the gassing voltage
- Optimal charging of damaged batteries
- Individually programmed upon request

Electronic protection functions

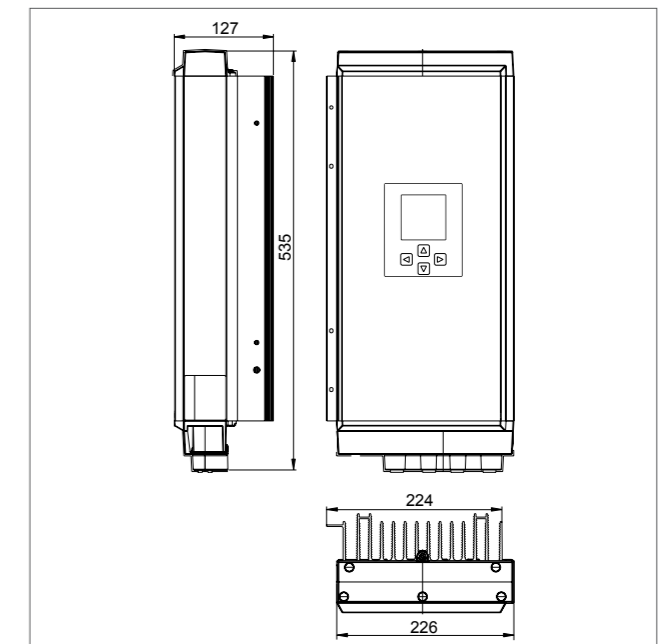
- Protection in the case of wrong or damaged batteries
- Battery overcharge protection
- Charger output protected against short circuits, reverse polarity and overvoltage
- Surge protection in on-board power supplies

Display

- Multifunction graphical LCD display with backlighting for voltage, current, charged capacity, charging phase, menu

Operation

- Mains grid switch
- Four cursor buttons for menu selection



Technical data				
Charging rated voltage	12 V	24 V	36 V	48 V
Charging current	50 A	35 A	25 A	18 A
End-of-charge voltage	14.4 V	28.8 V	43.2 V	57.6 V
Trickle charge voltage	13.8 V	27.6 V	41.4 V	55.2 V
Characteristic curve	UoIUoIU			
Grid voltage	230 V AC ± 10 %			
Grid frequency	50 Hz			
Mains electricity	3.7 A (230 V)	5.5 A (230 V)		
Discharge current during grid failure	1 mA			
Protection class	I			
Casing / ingress protection	aluminium / plastic, IP 65			
Ambient temperature	-20 °C ... +60 °C			
Cooling	Convection			
Dimensions X x Y x Z	226 x 535 x 127 mm			
Weight	approx. 11.5 kg			
Options	fault messaging, IO card, data communication card, Steca ventilation system in accordance with EN 50272			

Technical data at 25 °C / 77 °F



Stecamat 861 ES

Processor-controlled charger / discharger for lead-acid batteries

The Stecamat 861 ES battery charger features a discharging stage of 140 W. It can recharge 12 V batteries with 720 W of power or discharge, charge and evaluate batteries in one automated test cycle.

For individual adjustment of current, voltage, time and the ideal monitoring of your battery, the Stecamat 861 ES battery charger has a selection of preset battery profiles and the option of entering new battery profiles. The Stecamat 861 ES also enables the processing of damaged or totally discharged batteries, ensuring long service life. A backlit display provides rapid information on the state of charge.

The wide range of features and made-to-measure solutions for your application requirements make for high flexibility of use. This and the easy handling of the device make for trouble-free operation.



Product features

- IP 65 jet waterproof case
- Battery processing for wet, gel and AGM batteries possible
- Charges 12 V lead-acid batteries (max. 50 A)
- Adjustable rated capacity determines the charging current
- Charging below the gassing voltage
- Features 2 pre-set and 4 programmable charging characteristics
- Automated testing for 12 V lead-acid batteries (charge – discharge – charge)
- 12 V discharging stage with 10 A discharge current (you can select between 2.5 A, 5 A and 10 A)
- Capacity detection of 12 V lead-acid batteries
- Suitable for treating deep-discharged batteries

Electronic protection functions

- Protection in the case of wrong or damaged batteries
- Battery overcharge protection
- Charger output protected against short circuits, reverse polarity and overvoltage
- Surge protection in on-board power supplies

Display

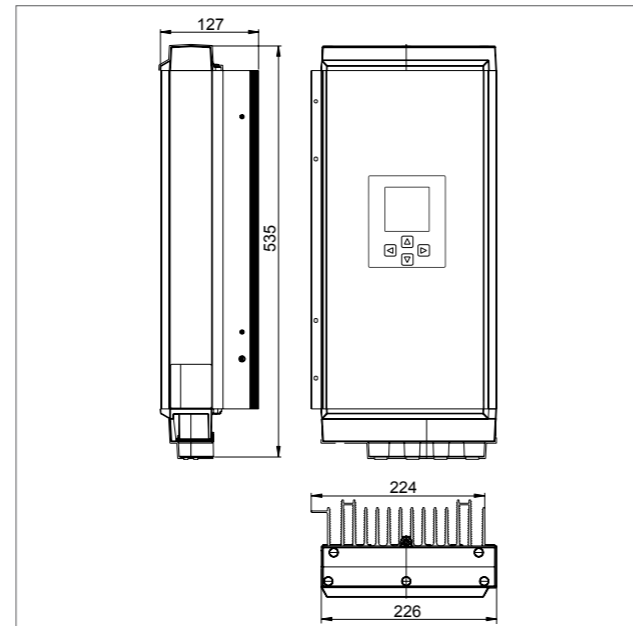
- Multifunction graphical LCD display with backlighting for voltage, current, charged capacity (charging), spent capacity (discharging), charging phase, test phase, menu

Operation

- Mains grid switch
- Four cursor buttons for menu selection
- Capacity test cycle: charge, discharge, charge

Options

- Potential-free contact for ventilator control of the battery room venting system



Technical data	
Charging rated voltage	12 V
Charging current	50 A
End-of-charge voltage	14.4 V
Trickle charge voltage*	13.8 V
Max. rated discharge voltage	12 V
Discharge cut-off voltage	10.5 V (10 V ... 11 V adjustable)
Discharge current	selectable: 2.5 A / 5 A / 10 A
Characteristic curve	UoIUoIU (charging), UoIUa (testing)
Capacity test cycle	charging / discharging / charging
Grid voltage	230 V AC ± 10 %
Grid frequency	50 Hz
Mains electricity	3.7 A (230 V)
Discharge current during grid failure	1 mA
Protection class	I
Casing / ingress protection	aluminium / plastic, IP 65
Ambient temperature	-20 °C ... +60 °C
Cooling	convection
Dimensions X x Y x Z	226 x 535 x 127 mm
Weight	approx. 11.5 kg
Options	fault messaging, IO card, data communication card, Steca ventilation system in accordance with EN 50272

Technical data at 25 °C / 77 °F

* only for charging programme

Stecamat 820

Processor-controlled charger for lead-acid batteries

The Stecamat 820 battery charger is available in a range from 12 V to 48 V with a rated power of 720 W to 1080 W.

The processor-controlled charging process ensures gentle and rapid charging of your battery. The current, voltage, time and ideal monitoring of your battery are individually adjusted by the setting of the rated capacity. The Stecamat 820 also enables the processing of damaged or totally discharged batteries, ensuring long service life. A LED provides rapid information on the state of charge.

The wide range of features and made-to-measure solutions for your application requirements make for high flexibility of use. This and the easy handling make for trouble-free operation, even when wearing gloves.



Product features

- Half the charging time compared to simple, non-controlled chargers with the same rated current
- Optimal for charging batteries with liquid electrolyte and solid gel / absorbed electrolyte (AGM)
- Adjustable rated capacity determines the charging current
- Suitable for totally discharged batteries
- Constant battery operational readiness through integrated trickle charge
- Ready for operation in just a few minutes
- Charging below the gassing voltage
- Optimal charging of damaged batteries
- Individually programmed upon request

Electronic protection functions

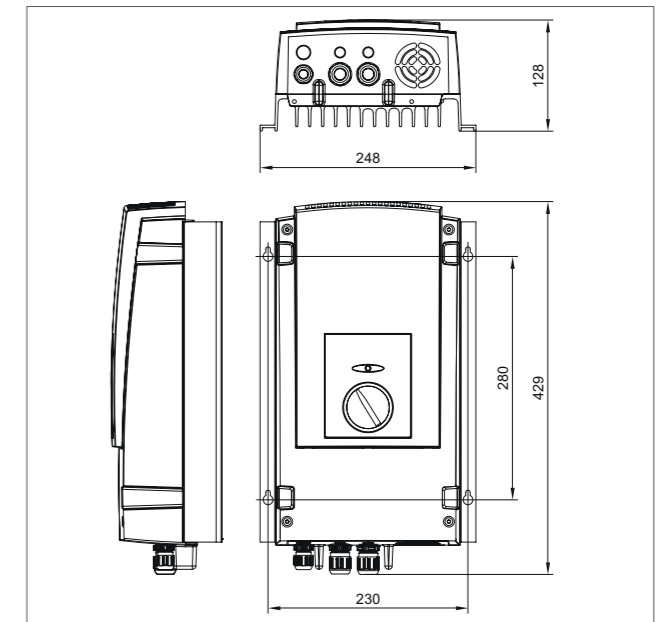
- Protection in the case of wrong or damaged batteries
- Battery overcharge protection
- Charger output protected against short circuits, reverse polarity and overvoltage

Display

- Multi-coloured LED shows operating statuses

Operation

- Adjustable rated capacity via rotary switch



Technical data				
Charging rated voltage	12 V	24 V	36 V	48 V
Charging current	50 A	35 A	25 A	18 A
End-of-charge voltage	14.4 V	28.8 V	43.2 V	57.6 V
Trickle charge voltage	13.8 V	27.6 V	41.4 V	55.2 V
Characteristic curve	UoIUoIU			
Grid voltage	230 V AC ± 10 %			
Grid frequency	50 Hz			
Mains electricity	3.7 A (230 V)	5.5 A (230 V)		
Discharge current during grid failure	1 mA			
Protection class	I			
Casing / ingress protection	plastic, IP 20			
Ambient temperature	-20 °C ... +60 °C			
Cooling	regulated fan			
Dimensions X x Y x Z	248 x 429 x 128 mm			
Weight	approx. 6 kg			
Options	fault messaging, IO card, data communication card, Steca ventilation system in accordance with EN 50272			

Technical data at 25 °C / 77 °F



Stecamat 821

Processor-controlled charger for lead-acid batteries

The Stecamat 821 battery charger is available in a range from 12 V to 48 V with a rated power of 720 W to 1080 W. The processor-controlled charging process ensures gentle and rapid charging of your battery. For individual adjustment of current, voltage, time and the ideal monitoring of your battery, the Stecamat 821 battery charger has a selection of preset battery profiles and the option of entering new battery profiles. The Stecamat 821 also enables the processing of damaged or totally discharged batteries, ensuring long service life. A backlit display provides rapid information on the state of charge.

The wide range of features and made-to-measure solutions for your application requirements make for high flexibility of use. This and the easy handling of the device make for trouble-free operation.

Product features

- Besides preset battery profiles there is the option of entering new battery profiles
- Half the charging time compared to simple, non-controlled chargers with the same rated current
- Optimal for charging batteries with liquid electrolyte and solid gel / absorbed electrolyte (AGM)
- Adjustable rated capacity determines the charging current
- Suitable for totally discharged batteries
- Constant battery operational readiness through integrated trickle charge
- Ready for operation in just a few minutes
- Charging below the gassing voltage
- Optimal charging of damaged batteries
- Individually programmed upon request

Electronic protection functions

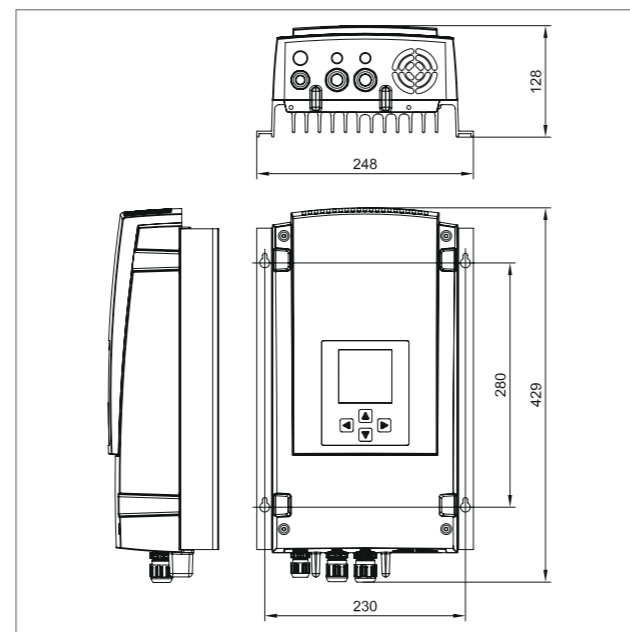
- Protection in the case of wrong or damaged batteries
- Battery overcharge protection
- Charger output protected against short circuits, reverse polarity and overvoltage

Display

- Multifunction graphical LCD display with backlighting for voltage, current, charged capacity, charging phase, menu

Operation

- Four cursor buttons for menu selection



Technical data				
Charging rated voltage	12 V	24 V	36 V	48 V
Charging current	50 A	35 A	25 A	18 A
End-of-charge voltage	14.4 V	28.8 V	43.2 V	57.6 V
Trickle charge voltage	13.8 V	27.6 V	41.4 V	55.2 V
Characteristic curve	UoIUoIU			
Grid voltage	230 V AC ± 10 %			
Grid frequency	50 Hz			
Mains electricity	3.7 A (230 V)	5.5 A (230 V)		
Discharge current during grid failure	1 mA			
Protection class	I			
Casing / ingress protection	plastic, IP 20			
Ambient temperature	-20 °C ... +60 °C			
Cooling	regulated fan			
Dimensions X x Y x Z	248 x 429 x 128 mm			
Weight	approx. 6 kg			
Options	fault messaging, IO card, data communication card, Steca ventilation system in accordance with EN 50272			

Technical data at 25 °C / 77 °F

Stecamat 202

Processor-controlled charger for lead-acid batteries

The Stecamat 202 battery charger is available in 12 V and 24 V with a rated power of 570 W to 860 W; automatic switching is also available. The processor-controlled charging process ensures gentle and rapid charging of your battery. The current, voltage, time and ideal monitoring of your battery are individually adjusted by the setting of the rated capacity. The Stecamat 202 also enables the processing of damaged or totally discharged batteries, ensuring long service life. Clearly arranged, large and illuminated displays provide rapid information on the state of charge.

The wide range of features and made-to-measure solutions for your application requirements make for high flexibility of use. This and the easy handling make for trouble-free operation, even when wearing gloves.

Product features

- Half the charging time compared to simple, non-controlled chargers with the same rated current
- Optimal for charging batteries with liquid electrolyte and solid gel / absorbed electrolyte (AGM)
- Adjustable rated capacity determines the charging current
- Suitable for totally discharged batteries
- Constant battery operational readiness through integrated trickle charge
- Ready for operation in just a few minutes
- Charging below the gassing voltage
- Optimal charging of damaged batteries

Electronic protection functions

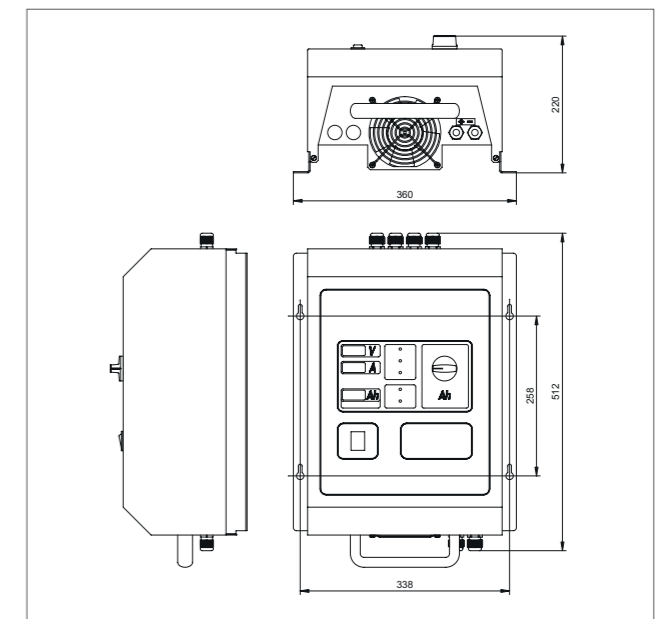
- Protection in the case of wrong or damaged batteries
- Battery overcharge protection
- Charger output protected against short circuits, reverse polarity and overvoltage

Display

- Protection in the case of wrong or damaged batteries
- Battery overcharge protection
- Charger output protected against short circuits, reverse polarity and overvoltage

Operation

- Mains grid switch
- Adjustable rated capacity via rotary switch



Technical data				
WITH AUTOMATIC SWITCHING				
Charging rated voltage	12 V	24 V	12 V / 24 V	12 V / 24 V
Charging current	40 A	20 A	40 A / 20 A	30 A
End-of-charge voltage	14.4 V	28.8 V	14.4 V / 28.8 V	28.8 V
Trickle charge voltage	13.8 V	27.6 V	13.8 V / 27.6 V	27.6 V
Characteristic curve	UoIUoIU			
Grid voltage	230 V AC ± 10 %, optional 110 V AC ± 10 %		230 V AC ± 10 %	
Grid frequency	50 Hz, optional 60 Hz		50 Hz	
Mains electricity	3.3 A (230 V), optional 6.6 A (110 V)		5 A (230 V)	
Discharge current during grid failure	1.3 mA	2.6 mA		
Protection class	I			
Casing / ingress protection	metal, coated, IP 21			
Ambient temperature	-20 °C ... +40 °C			
Cooling	convection		regulated fan	
Dimensions X x Y x Z	360 x 512 x 220 mm			
Weight	approx. 20 kg		approx. 22 kg	
Options	fault messaging, IO card, data communication card, Steca ventilation system in accordance with EN 50272			

Technical data at 25 °C / 77 °F



Stecamat 222

Processor-controlled double charger for lead-acid batteries

The Stecamat 222 battery charger monitors and controls the charging of two batteries or battery sets. The device is available with 2 x 12 V and 2 x 24 V with a rated power of 570 W. The crucial advantages of the 2 in 1 concept are the individual, totally independent processing of two 12 V / 24 V batteries and substantially longer service life than that achieved by charging with one 24 V / 48 V battery charger. There is also the option of the equalisation charging of two batteries from 24 V / 48 V battery sets. The processor-controlled charging process ensures gentle and rapid charging of your batteries. The current, voltage, time and ideal monitoring of your batteries are individually adjusted by the setting of the rated capacities. The Stecamat 222 also enables the processing of damaged or totally discharged batteries, ensuring long service life. Clearly arranged, large and illuminated displays provide rapid information on the state of charge.

The wide range of features and made-to-measure solutions for your application requirements make for high flexibility of use. This and the easy handling make for trouble-free operation, even when wearing gloves.



Product features

- Individual, totally independent processing of two 12 V / 24 V batteries
- Substantially longer battery life than that achieved by charging with one 24 V / 48 V charger
- Equalisation charging of two batteries from 24 V / 48 V vehicle battery sets
- Half the charging time compared to simple, non-controlled chargers with the same rated current
- Optimal for charging batteries with liquid electrolyte and solid gel / absorbed electrolyte (AGM)
- Adjustable rated capacity determines the charging current
- Suitable for totally discharged batteries
- Constant battery operational readiness through integrated trickle charge
- Ready for operation in just a few minutes
- Charging below the gassing voltage
- Optimal charging of damaged batteries
- Individually programmed upon request

Electronic protection functions

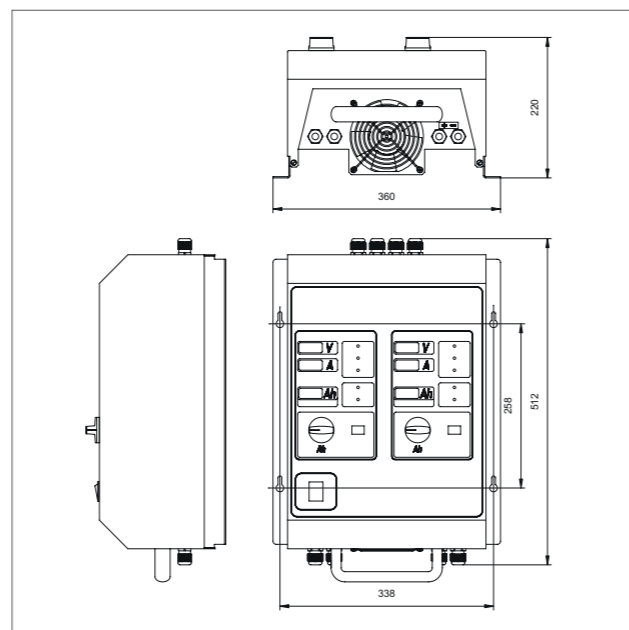
- Protection in the case of wrong or damaged batteries
- Battery overcharge protection
- Charger output protected against short circuits, reverse polarity and overvoltage

Display

- 3-digit 7-segment LED display for voltage, current, charged capacity
- 5 LEDs show operating statuses for charging (pre-charging), recharging, trickle charging, piping error, battery fault

Operation

- Mains grid switch
- Adjustable rated capacity via rotary switch
- Charge stop via button



Technical data		
Charging rated voltage	2 x 12 V	2 x 24 V
Charging current	2 x 20 A	2 x 10 A
End-of-charge voltage	14.4 V	28.8 V
Trickle charge voltage	13.8 V	27.6 V
Characteristic curve	2 x UoIUoIU	
Grid voltage	230 V AC ± 10 %, optional 110 V AC ± 10 %	
Grid frequency	50 Hz, optional 60 Hz	
Mains electricity	3.3 A (230 V), optional 6.6 A (110 V)	
Discharge current during grid failure	1.3 mA	2.6 mA
Protection class	I	
Casing / ingress protection	metal, coated, IP 20	
Ambient temperature	-20 °C ... +40 °C	
Cooling	regulated fan	
Dimensions X x Y x Z	360 x 512 x 220 mm	
Weight	approx. 22 kg	
Options	fault messaging, IO card, data communication card, Steca ventilation system in accordance with EN 50272	

Technical data at 25 °C / 77 °F

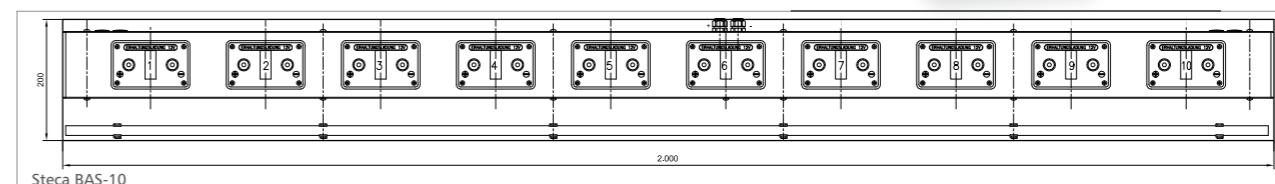
Stecamat 210

Processor-controlled 10x charger and trickle charger for lead-acid batteries including Steca BAS

Batteries are often used only intermittently or on a seasonal basis. If lead-acid batteries are not charged for several weeks or months, their capacity decreases and permanent damage is done. With the Stecamat 210, up to 10 lead-acid batteries can be individually processed. The Stecamat 210 monitors and controls the charging and/or trickle charging of 12 V or 6 V systems with a rated power of 144 W.

The processor-controlled charging process, with voltage, current and time control, ensures the gentle charging of your batteries, for all ten channels. Equalisation charging with a long life cycle is conducted on a weekly basis. This ensures the optimal charge status of the batteries in the trickle charge state, even over a long period of time. The charging status of each individual battery can be accessed in the display by means of the rotary switch.

The wide range of features and made-to-measure solutions for your application requirements make for high flexibility of use. A charging cable distribution unit for 10 batteries can be supplied with the device. This and the easy handling of the device make for trouble-free operation.



Steca BAS-10

Product features

- Optimal for charging batteries with liquid electrolyte and solid gel / absorbed electrolyte (AGM)
- Charging below the gassing voltage
- Battery performance is maintained over years
- Minimal electrolyte loss (no maintenance work)
- The current and voltage values of every battery can be individually accessed
- Replaceable battery connection cables with battery pliers
- Hanging rack for unused battery connection cables
- Individual adaptation to spatial conditions

Electronic protection functions

- Protection in the case of wrong or damaged batteries
- Battery overcharge protection
- Charger output protected against short circuits, reverse polarity and overvoltage

Display

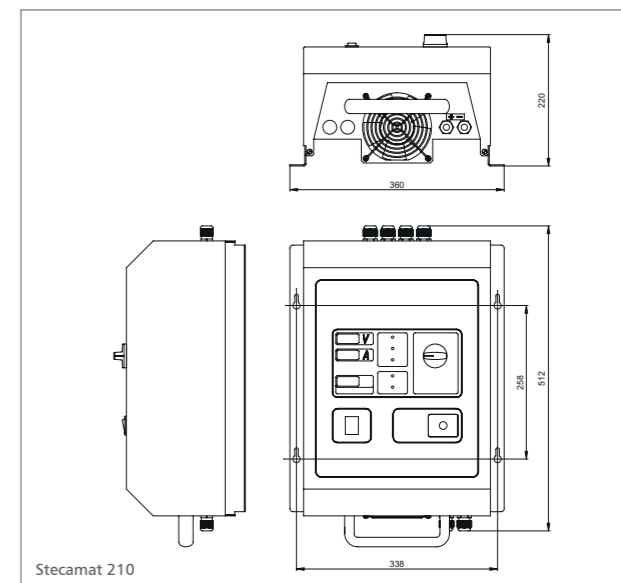
- 3-digit 7-segment LED display for voltage, current, battery number
- 5 LEDs show operating statuses for charging (pre-charging), trickle charging, long life cycle, piping error, battery fault

Operation

- Mains grid switch
- Battery selection via rotary switch
- Charge stop via button



Example for Steca BAS (battery connection system)



Stecamat 210

Technical data		
Charging rated voltage	10 x 12 V	10 x 6 V
Charging current	10 x 1 A	10 x 2 A
End-of-charge voltage	14.4 V	7.2 V
Trickle charge voltage	13.8 V	6.9 V
Characteristic curve	10 x IU	
Grid voltage	230 V AC ± 10 %	
Grid frequency	50 Hz	
Mains electricity	0.8 A (230 V)	
Discharge current during grid failure	1 mA	
Protection class	I	
Casing / ingress protection	metal, coated, IP 21	
Ambient temperature	-20 °C ... +40 °C	
Cooling	convection	
Dimensions X x Y x Z (Stecamat 210)	360 x 512 x 220 mm	
Dimensions X x Y x Z (Steca BAS-10)	2,000 x 200 x 108 mm	
Weight	approx. 13 kg	
Options	fault messaging, IO card, data communication card, Steca ventilation system in accordance with EN 50272	

Technical data at 25 °C / 77 °F

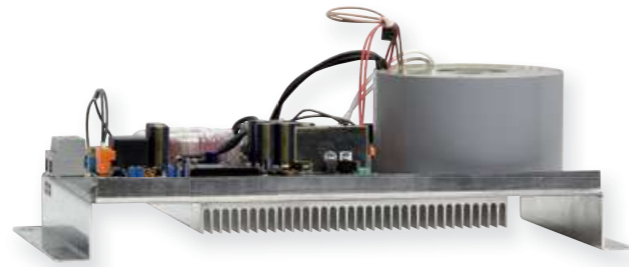


Stecamat 332

Processor-controlled lead-acid battery charger and power supply unit

The Stecamat 332 battery charger and power supply unit is available with 12 V and 24 V with a rated power of 570 W to 860 W. The open frame construction of the charger makes it suitable for installation in vehicles and distributors. It also supplies parallel connect loads, up to the maximum current of the device. The processor-controlled charging process ensures gentle and rapid charging of your battery. The Stecamat 332 also enables the processing of damaged or totally discharged batteries, ensuring long service life.

A wide ambient temperature range and the easy handling of the device make for trouble-free operation. The selective on-board protective circuit ensures the greatest possible safety during operation in vehicles. The wide range of accessories facilitates the optimal solution for every application.



Product features

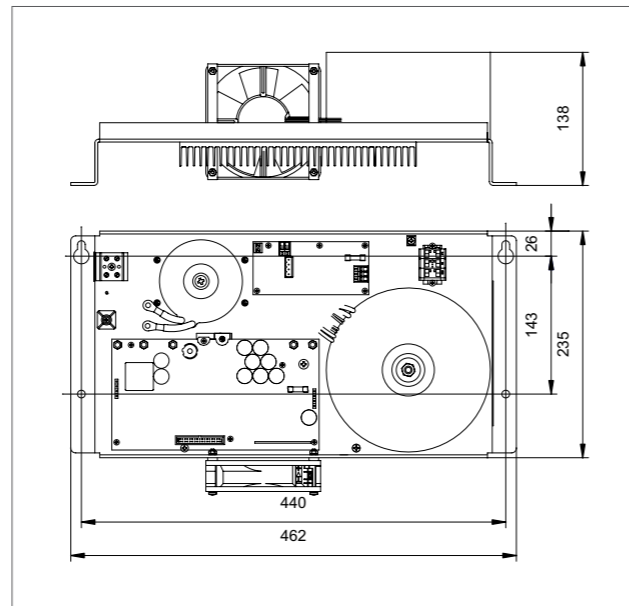
- Half the charging time compared to simple, non-controlled chargers with the same rated current
- Optimal for charging batteries with liquid electrolyte and solid gel / absorbed electrolyte (AGM)
- Suitable for totally discharged batteries
- Constant battery operational readiness through integrated trickle charge
- Ready for operation in just a few minutes
- Charging below the gassing voltage
- Optimal charging of damaged batteries
- Individually programmed upon request

Electronic protection functions

- Protection in the case of wrong or damaged batteries
- Battery overcharge protection
- Charger output protected against short circuits, reverse polarity and overvoltage

Display (optional)

- 3-digit 7-segment LED display for voltage, current, charged capacity:
- 5 LEDs show operating statuses for charging (pre-charging), recharging, trickle charging, piping error, battery fault
- LED shows operating states



Technical data			
Charging rated voltage	12 V	24 V	24 V
Charging current	40 A	20 A	30 A
End-of-charge voltage	14.4 V	28.8 V	28.8 V
Trickle charge voltage	13.8 V	27.6 V	27.6 V
Characteristic curve	UoUoUoU		
Grid voltage	230 V AC ± 10 %, optional 110 V AC ± 10 %		230 V AC ± 10 %
Grid frequency	50 Hz, optional 60 Hz		
Mains electricity	3.3 A (230 V), optional 6.6 A (110 V)		5 A (230 V)
Discharge current during grid failure	1.3 mA		2.6 mA
Protection class	I		
Casing / ingress protection	aluminium, IP 00		
Ambient temperature	-20 °C ... +60 °C		
Cooling	convection	regulated fan	
Dimensions X x Y x Z	462 x 138 x 235 mm		
Weight	approx. 12 kg		approx. 14 kg
Options	7-segment LED displays, green LED for operating mode and charging phase of the battery, fault message, IO card, data communication card, Steca ventilation system in accordance with EN 50272		

Technical data at 25 °C / 77 °F

Steca.pri

Processor-controlled charger for lead-acid batteries

The Steca.pri battery charger is available at 24 V and a rated power of 90 W to 150 W. The charger is designed as a mobile tabletop device. The processor-controlled charging process ensures gentle and rapid charging of your battery. The Steca.pri thus enables the processing of damaged or totally discharged batteries, ensuring long service life. LEDs provide rapid information on the state of charge.

The Steca.pri battery charger stands out with its robust casing, handy format and low weight, and is suitable for both mobile and domestic use. The easy and comfortable handling of the device makes for trouble-free operation. The Steca.pri battery charger was specially developed for charging batteries for electric wheelchairs, electric scooters, electric bicycles, electric buggies and electric cleaning machines.



Product features

- Optimal for charging batteries with liquid electrolyte and solid gel / absorbed electrolyte (AGM)
- Suitable for totally discharged batteries
- Constant battery operational readiness through integrated trickle charge
- Optimal charging of damaged batteries

Electronic protection functions

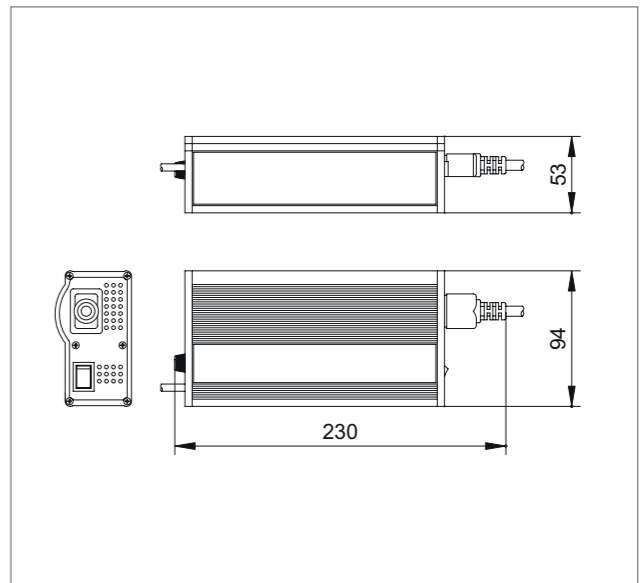
- Battery overcharge protection
- Charger output protected against short circuits, reverse polarity and overvoltage

Display

- 2 LEDs show operating statuses

Operation

- Mains grid switch



Technical data			
Charging rated voltage	24 V		
Charging current	3 A	4 A	5 A
End-of-charge voltage	29.4 V		
Trickle charge voltage	27.6 V		
Characteristic curve	UoUoU		
Grid voltage	230 V AC ± 10 %, can be switched to 115 V AC ± 10 %		
Grid frequency	50 Hz / 60 Hz		
Mains electricity	0.5 A (230 V) 1 A (115 V)	0.6 A (230 V) 1.2 A (115 V)	0.7 A (230 V) 1.4 A (115 V)
Discharge current during grid failure	2.5 mA		
Protection class	I		
Casing / ingress protection	aluminium with edge protection, IP 21		
Ambient temperature	-10 °C ... +50 °C		
Cooling	regulated fan		
Dimensions X x Y x Z	230 x 94 x 53 mm		
Weight	approx. 0.85 kg		

Technical data at 25 °C / 77 °F

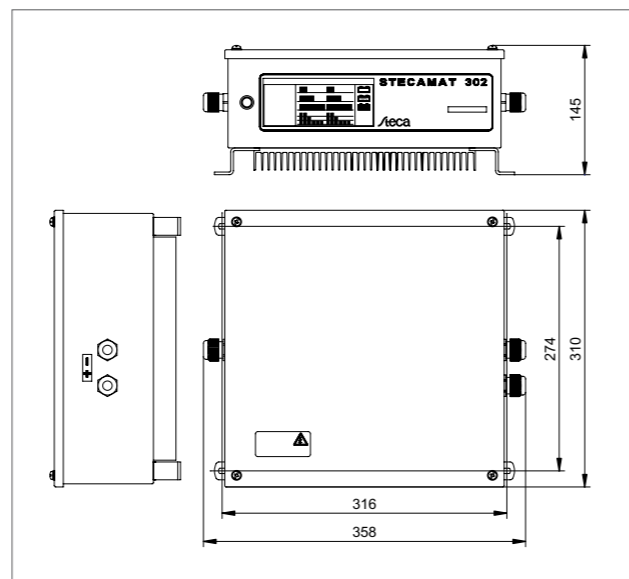


Stecamat 302

Processor-controlled lead-acid battery charger and power supply unit

The Stecamat 302 battery charger and power supply unit is available in a range from 12 V to 36 V with a rated power of 430 W to 650 W; automatic switching is also available. It also supplies parallel connect loads, up to the maximum current of the device. The processor-controlled charging process ensures gentle and rapid charging of your battery. The Stecamat 302 also enables the processing of damaged or totally discharged batteries, ensuring long service life. A LED provides rapid information on the state of charge.

The robust and splash-proof casing of the Stecamat 302 charger makes it suitable for use in vehicles. The wide ambient temperature range with convection cooling and the easy handling of the device make for trouble-free operation. The selective on-board protective circuit ensures the greatest possible safety during operation in vehicles. The wide range of accessories facilitates the optimal solution for every application. For example, a special fire engine model is available.



Product features

- Half the charging time compared to simple, non-controlled chargers with the same rated current
- Optimal for charging batteries with liquid electrolyte and solid gel / absorbed electrolyte (AGM)
- Suitable for totally discharged batteries
- Constant battery operational readiness through integrated trickle charge
- Ready for operation in just a few minutes
- Charging below the gassing voltage
- Optimal charging of damaged batteries
- Individually programmed upon request

Electronic protection functions

- Protection in the case of wrong or damaged batteries
- Battery overcharge protection
- Charger output protected against short circuits, reverse polarity and overvoltage

Display

- LED shows operating states

Technical data				
	WITH AUTOMATIC SWITCHING			
Charging rated voltage	12 V	24 V	36 V	12 / 24 V
Charging current	30 A	20 A	15 A	30 / 20 A
End-of-charge voltage	14.4 V	28.8 V	43.2 V	14.4 V / 28.8 V
Trickle charge voltage	13.8 V	27.6 V	41.4 V	13.8 V / 27.6 V
Characteristic curve	UoIUoIU			
Grid voltage	230 V AC ± 10 %, optional 110 V AC ± 10 %			
Grid frequency	50 Hz, optional 60 Hz			
Mains electricity	3.3 A (230 V), optional 6.6 A (110 V)			
Discharge current during grid failure	1.3 mA	2.6 mA	3.9 mA	2.6 mA
Protection class	I			
Casing / ingress protection	aluminium / plastic, IP 54			
Ambient temperature	-20 °C ... +60 °C			
Cooling	convection			
Dimensions X x Y x Z	358 x 145 x 310 mm			
Weight	approx. 15 kg			
Options	fault messaging, IO card, data communication card, Steca ventilation system in accordance with EN 50272			

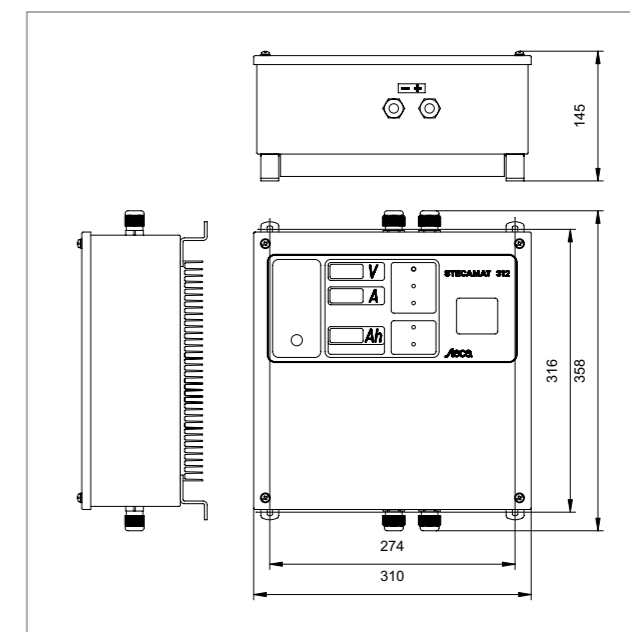
Technical data at 25 °C / 77 °F

Stecamat 312

Processor-controlled lead-acid battery charger and power supply unit

The Stecamat 312 battery charger and power supply unit is available in a range from 12 V to 36 V with a rated power of 430 W to 650 W; automatic switching is also available. It also supplies parallel connect loads, up to the maximum current of the device. The processor-controlled charging process ensures gentle and rapid charging of your battery. The Stecamat 312 also enables the processing of damaged or totally discharged batteries, ensuring long service life. Clearly arranged, large and illuminated displays provide rapid information on the state of charge.

The robust and splash-proof casing of the Stecamat 312 charger makes it suitable for use in vehicles. The wide ambient temperature range with convection cooling and the easy handling of the device make for trouble-free operation. The selective on-board protective circuit ensures the greatest possible safety during operation in vehicles. The wide range of accessories facilitates the optimal solution for every application. For example, a special fire engine model is available.



Product features

- IP 54 jet waterproof case
- Half the charging time compared to simple, non-controlled chargers with the same rated current
- Optimal for charging batteries with liquid electrolyte and solid gel / absorbed electrolyte (AGM)
- Suitable for totally discharged batteries
- Constant battery operational readiness through integrated trickle charge
- Ready for operation in just a few minutes
- Charging below the gassing voltage
- Optimal charging of damaged batteries

Electronic protection functions

- Protection in the case of wrong or damaged batteries
- Battery overcharge protection
- Charger output protected against short circuits, reverse polarity and overvoltage

Display

- 3-digit 7-segment LED display for voltage, current, charged capacity
- 5 LEDs show operating statuses for charging (pre-charging), recharging, trickle charging, piping error, battery fault

Operation

- Mains grid switch

Technical data				
	WITH AUTOMATIC SWITCHING			
Charging rated voltage	12 V	24 V	36 V	12 V / 24 V
Charging current	30 A	20 A	15 A	30 A / 20 A
End-of-charge voltage	14.4 V	28.8 V	43.2 V	14.4 V / 28.8 V
Trickle charge voltage	13.8 V	27.6 V	41.4 V	13.8 V / 27.6 V
Characteristic curve	UoIUoIU			
Grid voltage	230 V AC ± 10 %, optional 110 V AC ± 10 %			
Grid frequency	50 Hz, optional 60 Hz			
Mains electricity	3.3 A (230 V), optional 6.6 A (110 V)			
Discharge current during grid failure	1.3 mA	2.6 mA	3.9 mA	2.6 mA
Protection class	I			
Casing / ingress protection	metal, coated, IP 54			
Ambient temperature	-20 °C ... +60 °C			
Cooling	convection			
Dimensions X x Y x Z	310 x 358 x 145 mm			
Weight	approx. 15 kg			
Options	fault messaging, IO card, data communication card, Steca ventilation system in accordance with EN 50272			

Technical data at 25 °C / 77 °F



Stecamat 891

Processor-controlled charger for lead-acid batteries

The Stecamat 891 battery charger is available in a range from 12 V to 48 V with a rated power of 720 W to 1,080 W in a sealed casing. The charger is intended for use as a mobile tabletop device or for installation in 19-inch cabinets.

The processor-controlled charging process ensures gentle and rapid charging of your battery. For individual adjustment of current, voltage, time and the ideal monitoring of your battery, the Stecamat 891 battery charger has a selection of preset battery profiles and the option of entering new battery profiles. The Stecamat 891 also enables the processing of damaged or totally discharged batteries, ensuring long service life. A backlit display provides rapid information on the state of charge.

The wide range of features and made-to-measure solutions for your application requirements make for high flexibility of use. This and the easy handling of the device make for trouble-free operation.



Product features

- Besides preset battery profiles there is the option of entering new battery profiles
- Half the charging time compared to simple, non-controlled chargers with the same rated current
- Optimal for charging batteries with liquid electrolyte and solid gel / absorbed electrolyte (AGM)
- Adjustable rated capacity determines the charging current
- Suitable for totally discharged batteries
- Constant battery operational readiness through integrated trickle charge
- Ready for operation in just a few minutes
- Charging below the gassing voltage
- Optimal charging of damaged batteries
- Individually programmed upon request

Electronic protection functions

- Protection in the case of wrong or damaged batteries
- Battery overcharge protection
- Charger output protected against short circuits, reverse polarity and overvoltage

Display

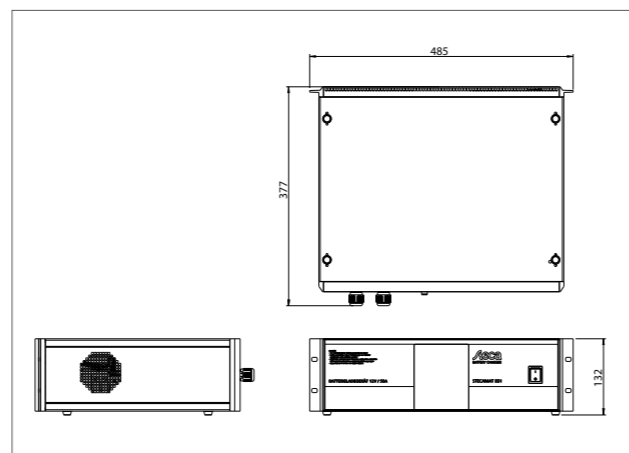
- Multifunction graphical LCD display with backlighting for voltage, current, charged capacity, charging phase, menu

Operation

- Mains grid switch
- Four cursor buttons for menu selection

Options

- Fault messaging
- IO-card
- Data communication card
- Steca ventilation system in accordance with EN 50272



Technical data				
Charging rated voltage	12 V	24 V	36 V	48 V
Charging current	50 A	35 A	25 A	18 A
End-of-charge voltage	14.4 V	28.8 V	43.2 V	57.6 V
Trickle charge voltage	13.8 V	27.6 V	41.4 V	55.2 V
Characteristic curve	UoUoU			
Grid voltage	230 V AC ± 10 %			
Grid frequency	50 Hz			
Mains electricity	3.7 A (230 V)	5.5 A (230 V)		
Discharge current during grid failure	1 mA			
Protection class	I			
Casing / ingress protection	aluminium / plastic, IP 21			
Ambient temperature	-20 °C ... +60 °C			
Cooling	regulated fan			
Dimensions X x Y x Z	485 x 132 x 377 mm			
Weight	approx. 9.5 kg			
Options	fault messaging, IO card, data communication card, Steca ventilation system in accordance with EN 50272			

Technical data at 25 °C / 77 °F

Stecamat 891 in a 19-inch casing

Processor-controlled 19 inch charger for lead-acid batteries

The Stecamat 891 battery charger is available in a range from 12 V to 48 V with a rated power of 720 W to 1,080 W in a sealed casing. The charger is intended for use as a mobile tabletop device or for installation in 19-inch cabinets.

The processor-controlled charging process ensures gentle and rapid charging of your battery. For individual adjustment of current, voltage, time and the ideal monitoring of your battery, the Stecamat 891 battery charger has a selection of preset battery profiles and the option of entering new battery profiles. The Stecamat 891 also enables the processing of damaged or totally discharged batteries, ensuring long service life. A backlit display provides rapid information on the state of charge.

The wide range of features and made-to-measure solutions for your application requirements make for high flexibility of use. This and the easy handling of the device make for trouble-free operation.



Product features

- Besides preset battery profiles there is the option of entering new battery profiles
- Half the charging time compared to simple, non-controlled chargers with the same rated current
- Optimal for charging batteries with liquid electrolyte and solid gel / absorbed electrolyte (AGM)
- Adjustable rated capacity determines the charging current
- Suitable for totally discharged batteries
- Constant battery operational readiness through integrated trickle charge
- Ready for operation in just a few minutes
- Charging below the gassing voltage
- Optimal charging of damaged batteries
- Individually programmed upon request

Electronic protection functions

- Protection in the case of wrong or damaged batteries
- Battery overcharge protection
- Charger output protected against short circuits, reverse polarity and overvoltage

Display

- Multifunction graphical LCD display with backlighting for voltage, current, charged capacity, charging phase, menu

Operation

- Mains grid switch
- Four cursor buttons for menu selection

Options

- Fault messaging
- IO-card
- Data communication card
- Steca ventilation system in accordance with EN 50272

Technical data				
Charging rated voltage	12 V	24 V	36 V	48 V
Charging current	50 A	35 A	25 A	18 A
End-of-charge voltage	14.4 V	28.8 V	43.2 V	57.6 V
Trickle charge voltage	13.8 V	27.6 V	41.4 V	55.2 V
Characteristic curve	UoUoU			
Grid voltage	230 V AC ± 10 %			
Grid frequency	50 Hz			
Mains electricity	3.7 A (230 V)	5.5 A (230 V)		
Discharge current during grid failure	1 mA			
Protection class	I			
Casing / ingress protection	aluminium / plastic, IP 21			
Ambient temperature	-20 °C ... +60 °C			
Cooling	regulated fan			
Dimensions X x Y x Z	570 x 600 x 485 mm			
Weight	approx. 45 kg (depending on the design)			
Options	fault messaging, IO card, data communication card, Steca ventilation system in accordance with EN 50272			

Technical data at 25 °C / 77 °F



Steca G1 300

Processor-controlled charger for lead-acid batteries

The G1 300 battery charger is available in a range from 6 V to 48 V with a rated power of 40 W to 60 W. The charger is designed as a mobile tabletop device. The processor-controlled charging process ensures gentle and rapid charging of your battery. The G1 300 thus enables the processing of damaged or totally discharged batteries, ensuring long service life. LEDs provide rapid information on the state of charge.

The G1 300 battery charger stands out with its robust casing, handy format, low weight and different voltage versions. The easy and comfortable handling of the device makes for trouble-free operation.



Product features

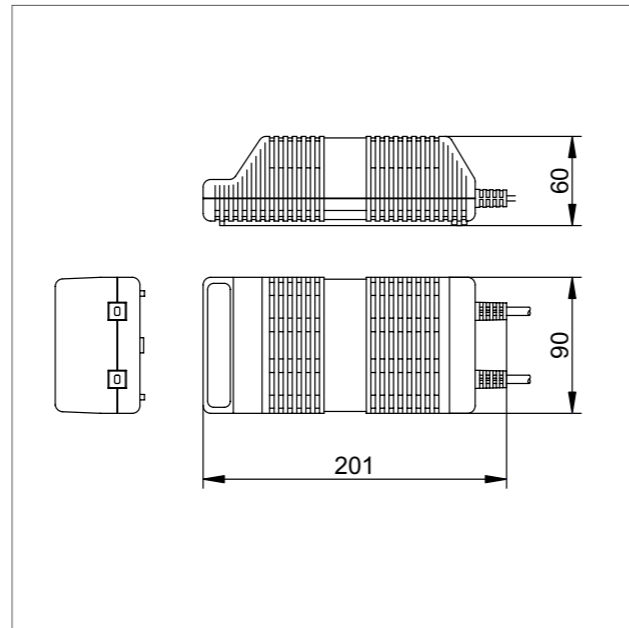
- Optimal for charging batteries with liquid electrolyte and solid gel / absorbed electrolyte (AGM)
- Suitable for totally discharged batteries
- Constant battery operational readiness through integrated trickle charge
- Charging below the gassing voltage
- Optimal charging of damaged batteries

Electronic protection functions

- Battery overcharge protection
- Charger output protected against short circuits, reverse polarity and overvoltage

Display

- 4 LEDs show operating statuses for grid, charge, charged, polarity



Technical data	G1 306-5	G1 312-2	G1 312-4	G1 312-5	G1 324-2,5	G1 336-1,5	G1 348-1
Charging rated voltage	6 V	12 V		24 V		48 V	
Charging current	5 A	2 A	4 A	5 A	2.5 A	1.5 A	1 A
End-of-charge voltage	7.2 V	14.4 V		28.8 V		57.6 V	
Trickle charge voltage	6.9 V	13.8 V		27.6 V		55.2 V	
Characteristic curve	UloU						
Grid voltage	230 V AC ± 10 %						
Grid frequency	50 Hz						
Mains electricity	0.2 A (230 V)		0.4 A (230 V)				
Discharge current during grid failure	2.5 mA						
Protection class	II / VDE 0805						
Casing / ingress protection	plastic, IP 21						
Ambient temperature	0 °C ... +35 °C						
Cooling	convection						
Dimensions X x Y x Z	201 x 60 x 90 mm						
Weight	approx. 0.6 kg						

Technical data at 25 °C / 77 °F

Steca G2 300

Processor-controlled charger for lead-acid batteries

The G2 300 battery charger is available in a range from 12 V to 36 V with a rated power of 100 W to 220 W. The charger is designed as a mobile tabletop device. The processor-controlled charging process ensures gentle and rapid charging of your battery. The G2 300 thus enables the processing of damaged or totally discharged batteries, ensuring long service life. LEDs provide rapid information on the state of charge.

The G2 300 battery charger stands out with its robust casing, handy format, low weight and different voltage versions. The easy and comfortable handling of the device makes for trouble-free operation.

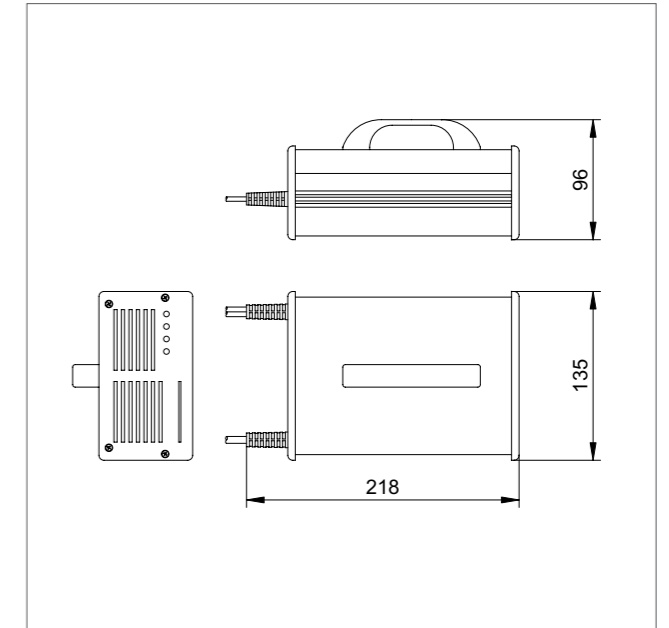


Product features

- Optimal for charging batteries with liquid electrolyte and solid gel / absorbed electrolyte (AGM)
- Suitable for totally discharged batteries
- Constant battery operational readiness through integrated trickle charge
- Charging below the gassing voltage
- Optimal charging of damaged batteries

Display

- 4 LEDs show operating statuses for grid, charge, charged, polarity



Technical data	G2 312-7	G2 312-10	G2 324-5	G2 324-7	G2 324-10	G2 336-5
Charging rated voltage	12 V		24 V		36 V	
Charging current	7 A	10 A	5 A	7 A	10 A	5 A
End-of-charge voltage	14.4 V		28.8 V		43.2 V	
Trickle charge voltage	13.8 V		27.6 V		41.4 V	
Characteristic curve	UloU					
Grid voltage	230 V AC ± 10 %	230 V AC ± 10 %, optional 100 V ... 240 V AC		230 V AC ± 10 %	100 V AC ... 240 V AC	
Grid frequency	50 Hz / 60 Hz					
Mains electricity	0.8 A (230 V)	0.9 A (230 V) 1.8 A (110 V)	1.1 A (230 V) 2.2 A (110 V)	1.5 A (230 V) 3.0 A (110 V)	2.1 A (230 V)	1.6 A (230 V) 3.2 A (110 V)
Discharge current during grid failure	1 mA					
Protection class	II / VDE 0805					
Casing / ingress protection	plastic, IP 20					
Ambient temperature	0 °C ... +35 °C					
Cooling	convection	regulated fan				
Dimensions X x Y x Z	135 x 96 x 218 mm				220 x 130 x 75 mm	
Weight	approx. 1.2 kg				approx. 1.6 kg	

Technical data at 25 °C / 77 °F



Stecamat 500

Processor-controlled charger for lead-acid batteries

The Stecamat 500 battery charger and trickle charger maintains the operational readiness of 24 V lead-acid battery sets, particularly in vehicles. The innovative charging process with the "saw tooth" characteristic curve at least doubles the life of your battery. This means the device pays for itself in a very short time. The Stecamat 500 can be used with 24 V battery sets up to 500 Ah. It also supplies parallel connected loads, up to the maximum current of the device. LEDs provide rapid information on the state of charge.

The robust and splash-proof casing of the Stecamat 500 charger makes it suitable for outdoor use. The wide ambient temperature range with convection cooling and the easy handling of the device make for trouble-free operation, even when wearing gloves. The wide range of features and made-to-measure solutions for your application requirements make for high flexibility of use.

Product features

- Suitable for mobile and stationary use
- "Saw tooth" trickle charging
- Half the charging time compared to simple, non-controlled chargers with the same rated current
- Optimal for charging batteries with liquid electrolyte and solid gel / absorbed electrolyte (AGM)
- Suitable for totally discharged batteries
- Constant battery operational readiness through integrated trickle charge
- Charging below the gassing voltage
- Optimal charging of damaged batteries
- Individually programmed upon request

Electronic protection functions

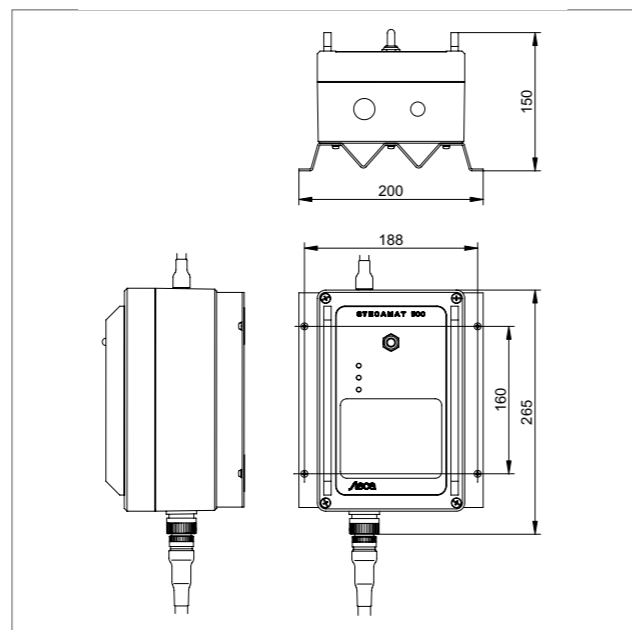
- Protection in the case of wrong or damaged batteries
- Battery overcharge protection
- Charger output protected against short circuits, reverse polarity and overvoltage

Display

- 3 LEDs show operating statuses for grid, charging, (trickle charging), fault

Operation

- Mains grid switch



Technical data	
Charging rated voltage	24 V
Charging current	5 A
End-of-charge voltage	28.8 V
Trickle charge voltage	27.6 V (1 A)
Characteristic curve	UoIUoIU "Saw tooth" trickle charging
Grid voltage	230 V AC ± 10 %
Grid frequency	50 Hz
Mains electricity	0.8 A (230 V)
Discharge current during grid failure	1.5 mA
Protection class	I
Casing / ingress protection	aluminium, IP 54
Ambient temperature	-20 °C ... +60 °C
Cooling	convection
Dimensions X x Y x Z	200 x 265 x 150 mm
Weight	approx. 4 kg

Technical data at 25 °C / 77 °F

Stecamat 1000

Processor-controlled charger for lead-acid batteries

The Stecamat 1000 battery charger is used for recharging discharged, partially discharged and totally discharged 12 V lead-acid batteries. The battery type is selected and the rated capacity entered via the multifunction display.

During the charging process the device collects data and assesses the further usability of the batteries. After processing is completed the Stecamat 1000 automatically prints a detailed charging protocol.

Intact batteries are put back into use; defect batteries are documented and disposed of for recycling. This makes a major contribution to reducing costs and to environmental protection.

Product features

- Monitoring and evaluation of the further usability of batteries through protocol printout
- Half the charging time compared to simple, non-controlled chargers with the same rated current
- Optimal for charging batteries with liquid electrolyte and solid gel / absorbed electrolyte (AGM)
- Adjustable rated capacity determines the charging current
- Suitable for totally discharged batteries
- Ready for operation in just a few minutes
- Charging below the gassing voltage
- Optimal charging of damaged batteries
- Individually programmed upon request

Electronic protection functions

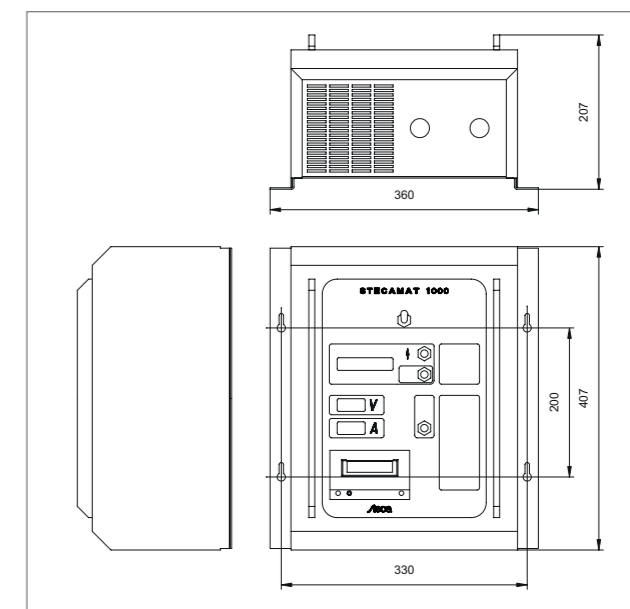
- Protection in the case of wrong or damaged batteries
- Battery overcharge protection
- Charger output protected against short circuits, reverse polarity and overvoltage

Display

- Multifunction LED display for date, battery type, charged capacity, voltage, current

Operation

- Mains grid switch
- Adjustable rated capacity and charge start/stop via 3 buttons
- Integrated graphics capable protocol printer



Technical data	
Charging rated voltage	12 V
Charging current	40 A
End-of-charge voltage	14.4 V
Trickle charge voltage	-
Characteristic curve	UIUa
Grid voltage	230 V AC ± 10 %
Grid frequency	50 Hz
Mains electricity	3.3 A (230 V)
Discharge current during grid failure	1.3 mA
Protection class	I
Casing / ingress protection	metal, coated, IP 21
Ambient temperature	-20 °C ... +60 °C
Cooling	regulated fan
Dimensions X x Y x Z	360 x 407 x 207 mm
Weight	approx. 18 kg

Technical data at 25 °C / 77 °F



Steca BT 3000

Charger, discharger and testing device for all makes and types of batteries

The Steca BT 3000 provides binding and reliable answers to professional battery users' concerns about battery charge states and much more. The BT 3000, with its charging and trickle charging options, can carry out every conceivable battery-processing task on every type and make of battery on the market.

It is incredibly easy to use, with its step-by-step operation dialogue and large-format, user-friendly membrane keypad. The device checks the plausibility and admissibility of the entries automatically, thereby eliminating almost all operating errors. The battery processing status is shown on the illuminated display.

The integrated protocol printer creates a written record of each step of the battery processing.

In addition to the automatically compiled protocol, the whole programme sequence can be accessed from a PC via the integrated serial interface and then used, for example, for statistic analysis. Complex special applications can be carried out by connecting several devices to a main computer. If the cell tester is used, the voltages of the individual cells of the processed batteries are listed in the protocol. Defective cells can thus be clearly localised.

This ensures that only verifiably defective batteries are taken out of service, which is of great significance both in economic and ecological terms.



Product features

- Besides preset battery profiles there is the option of entering new battery profiles
- Suitable for mobile and stationary use
- User-defined configuration of battery processing for commissioning, discharging, charging, testing, maintenance, cell voltage measurement
- Batteries that can be processed: leaded lead-acid batteries, sealed (open) lead-acid batteries, open nickel-cadmium batteries, gas-tight nickel-cadmium batteries (round cell construction), gas-tight nickel-cadmium batteries (prismatic construction), rechargeable silver-zinc batteries
- User support for permanent online help, step-by-step description of programme, programme selection via 3-digit number
- Monitoring and evaluation of the further usability of batteries through protocol printout
- Integrated self test

Electronic protection functions

- Protection in the case of wrong or damaged batteries
- Battery overcharge protection
- Charger output protected against short circuits, reverse polarity and overvoltage

Display

- Multifunction graphical LCD display with backlighting for date, battery type, assessment of capacity, operating guide, digital voltmeter and amperemeter

Operation

- Mains grid switch
- Membrane keypad for entering all parameters
- Integrated graphics capable protocol printer

Technical data	
Charging rated voltage	adjustable from 0.1 V - 50 V discharge: 0.5 V - 39 V
Charging current	adjustable from 0.4 A - 50 A discharge: 0.4 A - 50 A
End-of-charge voltage	adjustable from 0.1 V - 50 V
Trickle charge voltage	adjustable from 0.1 V - 50 V
Characteristic curve	selectable
Grid voltage	230 V AC \pm 10 %
Grid frequency	50 Hz
Mains electricity	14 A (230 V)
Discharge current during grid failure	2 mA
Protection class	I
Casing / ingress protection	metal, coated, IP 21
Ambient temperature	-10 °C ... +55 °C
Cooling	regulated fan
Dimensions X x Y x Z	512 x 295 x 380 mm with outer casing
Weight	approx. 41 kg with outer casing

Technical data at 25 °C / 77 °F

ROOM FOR NOTES





»STECA SOLAR ELECTRONICS PRODUCTS AND SOLUTIONS FOR AN ECOLOGICAL FUTURE.«

Steca has long stood for ideas and innovations as an electronic manufacturing services (EMS) provider and manufacturer of Steca brand product lines in solar electronics and battery charging systems. As a leading supplier of products for the solar electronics industry, Steca sets the international standard for the regulation and control of solar energy systems. In the three market segments PV grid connected, PV off grid and Solar thermal, the Steca brand is synonymous with innovation and vision. In conception, development, production and marketing, the company is committed to the highest quality standards.

OTHER PRODUCT AREAS



PV GRID CONNECTED

Small systems



Systems for difficult roofs



Residential systems



Commercial systems



PV OFF GRID

Solar home systems



Inverter systems

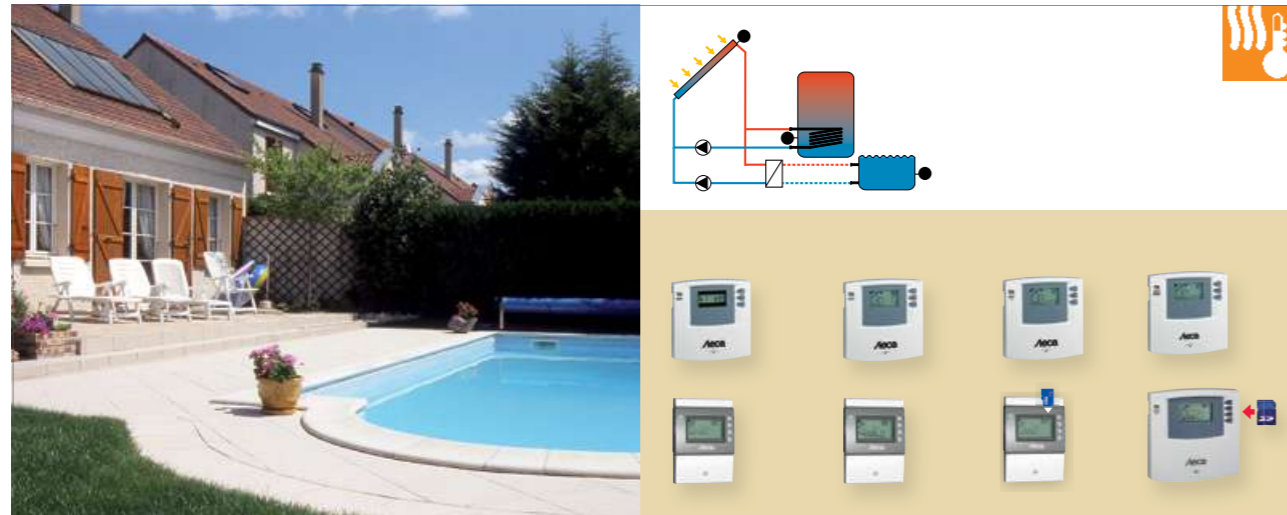


Hybrid systems



SOLAR THERMAL

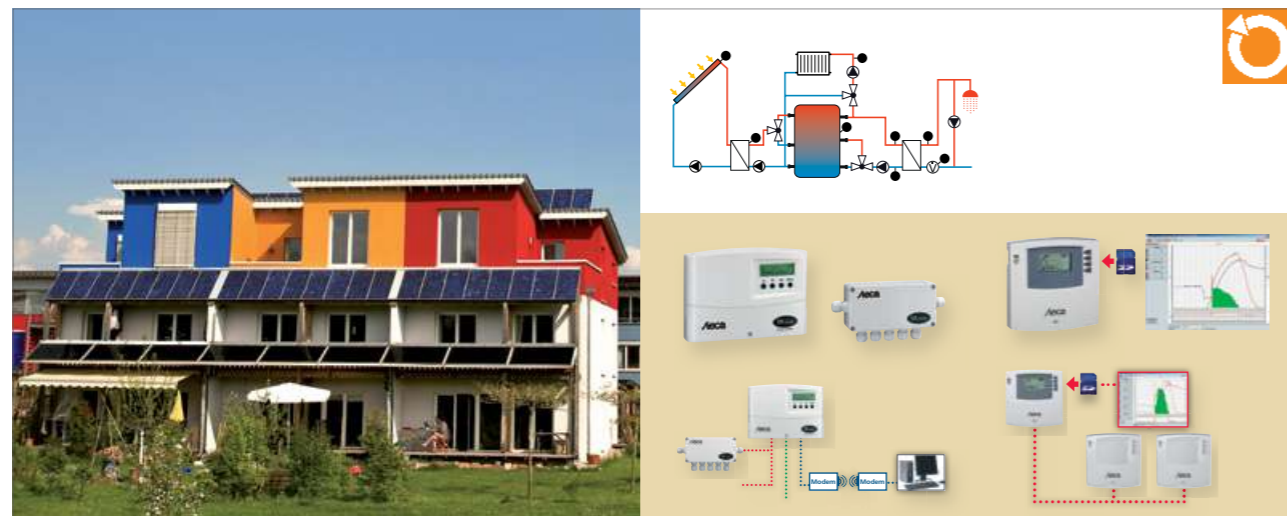
Solar controllers



Heating and domestic hot water controllers

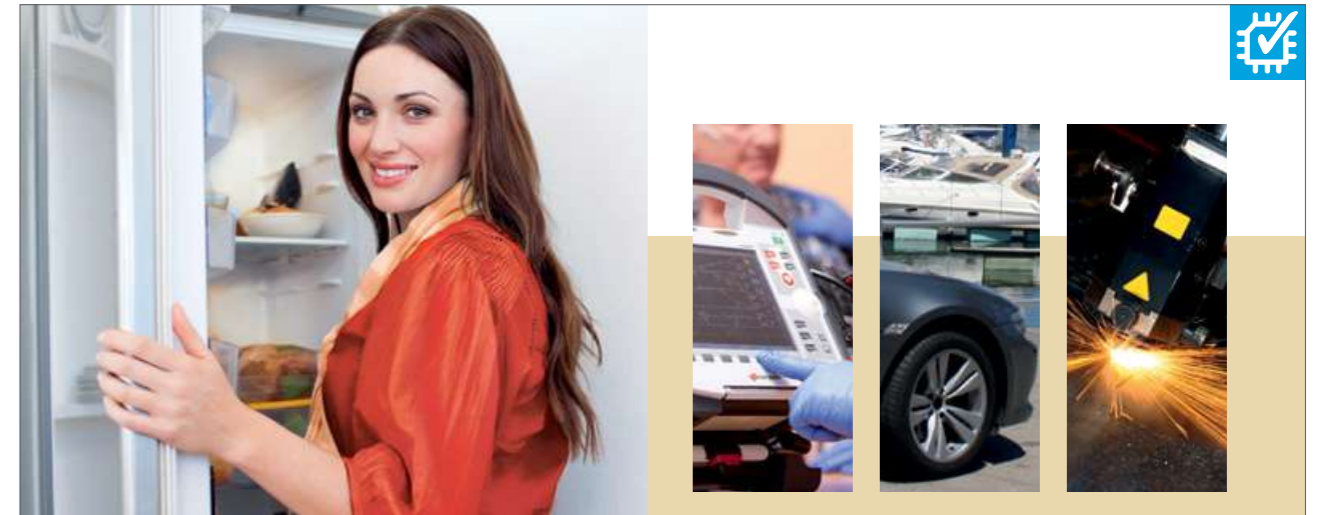


System controllers

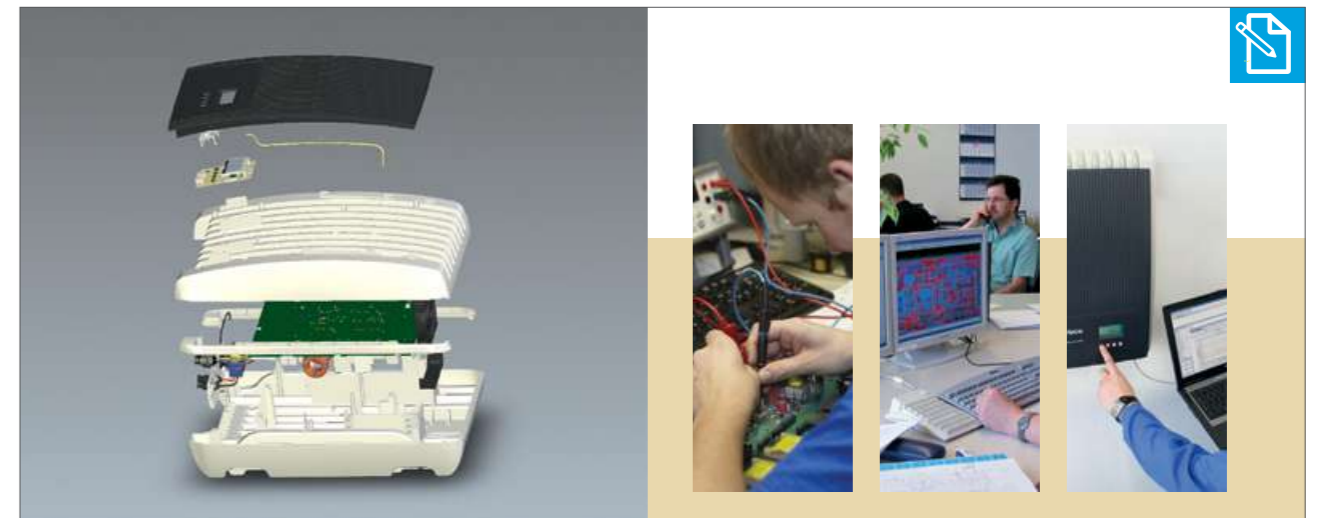


ELECTRONICS SERVICES

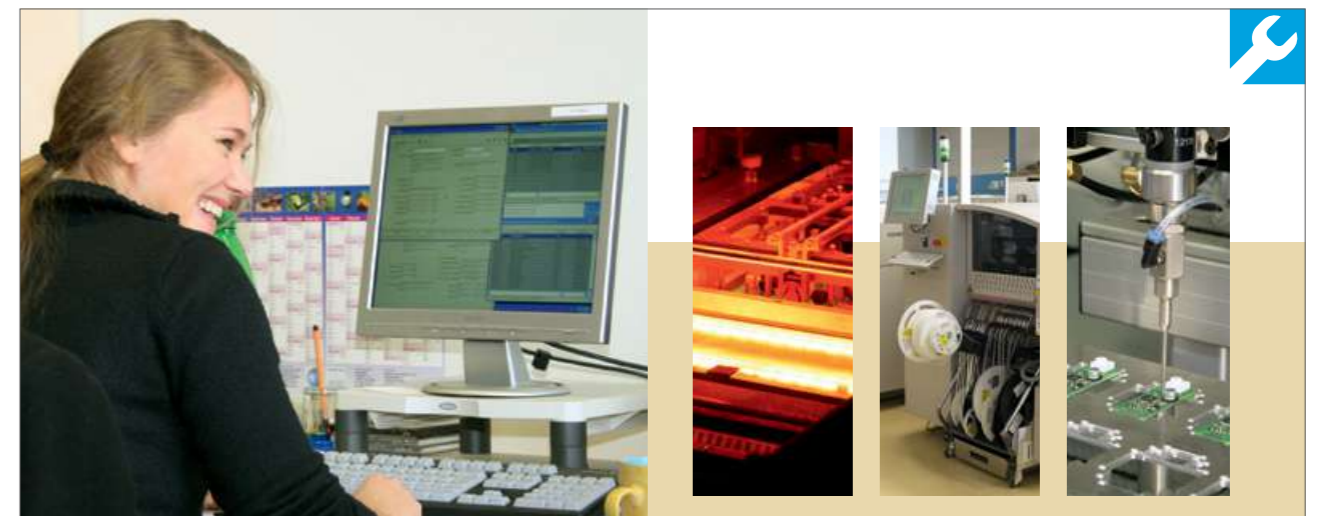
Quality



Development



Production





Steca
Elektronik

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