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# SMP Charger



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## Microcomputer-controlled charger and power supply

- For all types of batteries
- Power supply from 0–120 V and 10 A
- Disulphate sulphated batteries
- Can save batteries that have been discharged for a long time
- Freely adjustable voltage limit
- Freely adjustable current limit
- Can simulate a battery when fault finding on a charger
- Assist to start charger when battery is deeply discharged
- Voltage and current levels to be read from separate clear displays

# SMP Charger

## General

SMP is developed for the need of a small and light power supply. It is equipped with digital displays for voltage (V) and current (A). Rubber covered edges makes it very robust and protects against physical impact and from slipping on a surface.

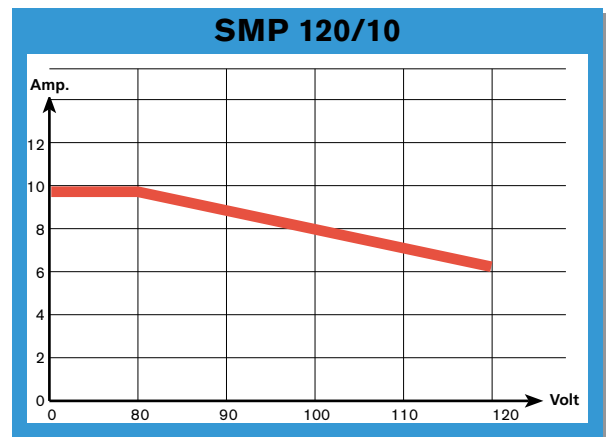
Voltage and current are easily adjusted by the two individual potentiometers at the front. The two digital displays show voltage and current levels under load. By pressing the "SET" button the adjusted values will be shown.

A microprocessor controls the mains supply and takes care of the charger's cooling. A cooling fan starts on demand and will protect from overheating. The fan is RPM controlled to ensure quiet operation. The secondary side is protected from short circuit and wrong polarity with a fuse. If higher current is needed, a second slave unit can be parallel connected.

The SMP is equipped with a illuminated mains switch and a mains cable for connection to both earthed and unearthed sockets.

## Areas of use

SMP can be used in a battery workshop to disulphate batteries that has been deeply discharged or not charged for a long time. Thanks to the low weight (1.6 kg) and small dimensions it is also very useful in service workshops and by service technicians who works with batteries, chargers and forklift trucks.



# SMP Charger

Technical specification	SMP 120/10
<b>Mains supply:</b>	50–255 V, (50–200 power limited), 45–65 Hz
<b>Current draw:</b>	max 4,5 A
<b>Power factor:</b>	~1 (PFC)
<b>Max. current:</b>	10 A
<b>Max. voltage:</b>	120 V
<b>Max. power:</b>	800 W
<b>Max. ripple out:</b>	30 mV RMS
<b>Efficiency:</b>	> 86%
<b>Frequency:</b>	> 100 kHz
<b>Cooling:</b>	Temperaturstyrd fläkt
<b>Weight:</b>	1,6 kg
<b>Dimension:</b>	258 x 136 x 89 mm
<b>Protection:</b>	IP20, (Electrically II, with or without earth)
<b>Cables:</b>	One set of laboratory cables is included

Service chargers 12V/50A, 36V/30A, 54V/20A and 72V/15A are also available.

**Characteristics**  
At least 200 V main supply is needed for full power of 800 W.