

## SMC-HF IP 65 WATERPROOF SPACE SAVING CHARGER



- For all types of lead acid batteries
- Waterproof
- Space-saving
- 12-24V, 6-29A

**SMC-HF  
IP 65**

# SMC-HF IP 65

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SMC-HF 24V/8A

- IP65-classified
- Protection from wrong polarity
- Temperature-protected
- Short circuit protected



SMC-HF 12V/6A, 24V/3A

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## General

The SMC-HF charger is intended for most types of batteries. Charging automatically takes place with e.g. IU1aU charging characteristics. This means charging with maximum current until the gassing voltage has been reached.

This voltage is then kept constant until the current has decreased to a limit value specific to each battery model. Hereafter the charger automatically switches to equalize charging or to maintenance charging depending on the charging curve.

Due to their dimensions, the SMC-HF 12V and 24V are the perfect chargers for onboard applications as for example for forklift trucks, sky lifts, wheel chairs, vehicles, etc.

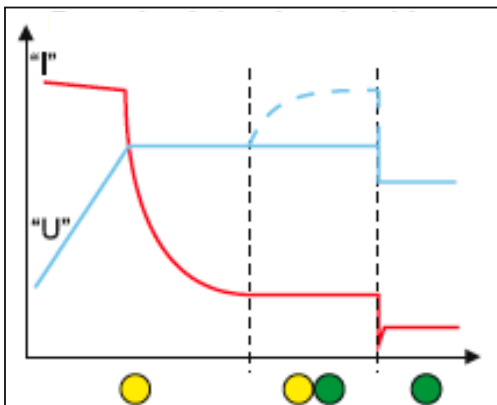
The batteries are always fully charged without risk of overcharging.

The 100W, 300W and 550W chargers supply output voltage without any battery connected. The 250W charger is in stand by mode waiting for a battery to be connected.

SMC-HF chargers are filled and sealed according to enclosure class IP 65. They are equally well suited to charging batteries in cyclic use as to maintenance charging of starter batteries. They are furthermore highly shockproof and therefore suitable for vehicles that are used on uneven ground.

# SMC-HF IP 65

## Example of charging algorithms



## Operating status (LED's)

- **Main charging:**  
Yellow LED is lit.  
Switching to additional charging or maintenance charging takes place when the current is at the lower limit.
- **Additional charging:**  
Yellow and green LED lit.  
When the battery is nearly fully charged, additional charging starts with a low current and then the voltage increases. Hereafter maintenance charging starts.
- **Maintenance charging:**  
Green LED is lit:  
The battery is fully charged.
- **After mains interruption:**  
Charging starts with main charging.



SMC-HF 12V/29A, 24V/19A



SMC-HF 12V/29A, 24V/19A

# SMC-HF IP 65

## Technical data

	100W	250W	300W	550W												
<b>Charger size</b>	12V 6A 24V 3A (also in 115V +20–22%)	24V 8A (also in 115V +20–22%)	12V 17A 24V 11A	12V 29A 24V 19A												
Mains voltage	230V +/- 10%	230V +/- 15%	230V +/- 10%	230V +/- 10%												
Mains current	0,7A	1,4A	1,6A	3,2A												
Frequency	40–60 Hz	47–63 Hz	40–60 Hz	40–60 Hz												
Charging algorithm	Programmable	Programmable	Only IUoU algorithm	Only IUoU algorithm												
Efficiency	> 85 %	> 90 %	> 85 %	> 85 %												
Weight	0,9 kg	1,6 kg	1,6 kg	3,5 kg												
Dimension	110 x 70 x 36 mm	193 x 99 x 48 mm	193 x 99 x 48 mm	200 x 150 x 108 mm												
Enclosure class	IP65	IP65	IP65	IP65												
Protection class	1 Earthed mains cable	1 Earthed mains cable 2 non earthed mains cable	1 Earthed mains cable	1 Earthed mains cable												
Safety	CE – mark	CE – mark	CE – mark	CE – mark												
Temperature range	-25 to +50°C	-25 to +50°C	-25 to +50°C	-25 to +50°C												
<b>Battery capacity for SMC-HF and a defined charging time</b>	<b>SMC-HF 12/6, 24/3</b>				<b>SMC-HF 24/8</b>				<b>SMC-HF 12/17, 24/11</b>				<b>SMC-HF 12/29, 24/19</b>			
	Open Lead/acid		Valve regulated GEL		Open Lead/acid		Valve regulated GEL		Open Lead/acid		Valve regulated GEL		Open Lead/acid		Valve regulated GEL	
<b>Charging Current (A)</b>	8 h cap. Ah	12 h cap. Ah	12 h cap. Ah	14 h cap. Ah	8 h cap. Ah	12 h cap. Ah	12 h cap. Ah	14 h cap. Ah	8 h cap. Ah	10 h cap. Ah	12 h cap. Ah	14 h cap. Ah	8 h cap. Ah	10 h cap. Ah	12 h cap. Ah	14 h cap. Ah
3	13	21	19	24												
6	26	42	38	48												
8					32	57	63	75								
11									45	60	83	98				
17									67	93	122	147				
19													77	103	142	168
29													114	158	207	250

We reserve the right to make changes without prior notice.

### Standard charger includes:

- 2 m primary cable with contact
- 1.5 m secondary cable



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