

# Impulse II mobility charger

www.victronenergy.com



### Adaptive 4-stage charge algorithm: bulk – absorption – float – storage

The Impulse II charger features a microprocessor controlled 'adaptive' battery management system. The adaptive feature will automatically optimize the charging process relative to the way the battery is being used.

### Storage mode: less maintenance and aging when the battery is not in use

The storage mode kicks in whenever the battery has not been subjected to discharge during 24 hours. In the storage mode float voltage is reduced to 2,2V/cell (26,4V for a 24V battery) to minimize corrosion of the positive plates and loss of liquid due to gassing. Once a week the voltage is raised back to the absorption level to 'equalize' the battery. This feature prevents stratification of the electrolyte and sulfation, a major cause of early battery failure.

### Protected against overheating

Output current will reduce as ambient temperature increases up to more than 30°C, but the charger will not be disabled.

### Two LED's for status indication

Red LED: bulk, absorption

Green LED: float, storage en repeated absorption (refresh)

Both LEDs flashing: connected with reverse polarity, short circuit, over voltage

### Adjustable and readable (Smart version)

The Impulse II Smart is equipped with Bluetooth Smart wireless communication. With this you can get a read out of the state and settings can be changed with a smart phone, tablet or laptop.

Impulse II	24/6 24/6 Smart	24/8 24/8 Smart
Input voltage	230 VAC (range 180-265 VAC)	
Frequency	50/60 Hz (range 45-65 Hz)	
Efficiency	95%	
Power consumption in no-load operation	0.5 W	
Charge voltage 'absorption'	28.8 V	
Charge voltage 'float'	27.6 V	
Charge voltage 'storage'	26.4 V	
Temperature compensation	-32 mV/°C	
Charge algorithm	4-stage adaptive	
Charge current	6 A	8 A
Minimum battery capacity	60 Ah	80 Ah
Back current drain	1 mA (0,7 Ah/month)	
Protection	Reverse polarity	Output short circuit    Over temperature
Temperature range	-30 to +60°C (rated output current up to 30°C)	
Cooling	Natural convection	
Bluetooth communication	Smart version only	
<b>ENCLOSURE</b>		
Material and colour	PC-ABS, dark grey (RAL7021)	
Battery connection	Black cable with XLR connector, length 1.9 meter	
230 V AC connection	Cable of 1,9 meter with CEE 7/17 plug	
Protection category	IP44 and IP65 versions available	
Weight	1.3 kg	
Dimensions (h x w x d)	60 x 105 x 190 mm	
<b>STANDARDS</b>		
Safety	EN 60335-1, EN 60335-2-29, EN 12184, ISO 7176-14	
Emission	EN 55014-1, EN 61000-6-3, EN 61000-3-2, ISO 7176-26	
Immunity	EN 55014-2, EN 61000-6-1, EN 61000-6-2, EN 61000-3-3	