

# Automotive IP65 Battery Charger 12V/4A - 12V/0,8A with DC connector

200-265 VAC

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### DC connector

Depending on the application, clamps, eyelets or a cigarette plug (all included) can be connected to the charger.

### Less maintenance and aging when the battery is not in use: the Storage Mode

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 13,2 V to minimize gassing and corrosion of the positive plates. Once a week the voltage is raised back to the absorption level to 'equalize' the battery. This feature prevents stratification of the electrolyte and sulphation, a major cause of early battery failure.

### Protected against overheating and reverse polarity connection

The output current will reduce as temperature increases up to 40°C, but the charger will not fail. Output relay protects against reverse polarity connection.

### Five LED's for status and mode indication

When connected to the AC supply the STAND-BY LED will turn on. No voltage will be present at the output. After connection to a battery (battery voltage must exceed 8,5V), a choice can be made out of three charge profiles with the MODE button:

1. Current limited to 0,8A and 14,4V absorption voltage. The red LED **<14Ah** will be on.  
Application: Flooded, AGM or GEL batteries. Ambient temperature 10-35°C.
2. Current 4A and 14,4V absorption voltage. The red LED **>14Ah** will be on.  
Application: Flooded, AGM or GEL batteries. Ambient temperature below 10°C, or batteries requiring a higher charge voltage (OPTIMA spiral cell batteries for example).
3. Current 4A and 14,7V absorption voltage. The red LED **COLD** will be on.  
Application: Flooded, AGM or GEL batteries. Ambient temperature below 10°C, or batteries requiring a higher charge voltage (OPTIMA spiral cell batteries for example).

Until the battery is fully charged, the red LED **CHARGE** will be on.  
After completion of the charge process, the red LED **FULL** will be on.

In case of reverse polarity connection, the red LED **!** will be on

If the red LED **STANDBY** remains on, even after pressing the MODE button, the connection to the battery is interrupted.

The charger always starts in **STANDBY** mode when connected to the AC supply.

### Learn more about batteries and battery charging

To learn more about batteries and charging batteries, please refer to our book 'Energy Unlimited' (available free of charge from Victron Energy and downloadable from [www.victronenergy.com](http://www.victronenergy.com)).



### Automotive IP65 Charger

Input voltage range	200-265 V
Frequency	50/60Hz
Charge voltage 'absorption'	14,4 or 14,7 V
Charge voltage 'float'	13,6 V
Charge voltage 'storage'	13,2 V
Charge current	4 A or 0,8 A
Can be used as power supply	No [output relay]
Back current drain	0,25 Ah/month (0,3 mA)
Protection	Reverse polarity, temperature
Operating temp. range	-20 to +40°C (full rated output up to 25°C)
Humidity (non condensing)	Max 95 %

### ENCLOSURE

Material & Colour	PC Black
Battery-connection	Black and red cable of 1,2 meter. Connects to battery clamps, M6 eyelets or 12 V plug (included)
230 V AC-connection	Cable of 1,5 meter with CEE 7/7 plug
Protection category	IP65
Weight	0,56 kg
Dimensions (h x w x d)	42 x 61 x 185 mm

### STANDARDS

Safety	EN 60335-1, EN 60335-2-29
Emission	EN 55014-1, EN 61000-6-3, EN 61000-3-2
Immunity	EN 55014-2, EN 61000-6-1, EN 61000-6-2, EN 61000-3-3