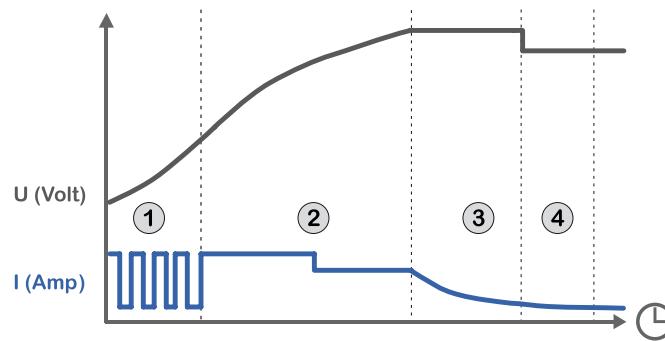


## 4 steps for an optimal recharge

### CHARGING CURVE



### ① DIAGNOSIS AND RECONDITION:

The charger analyses the battery automatically and checks its voltage. A pulse charge will start for the recondition of slightly sulphated batteries.

### ② CHARGING:

During the step of recharge, the voltage supplied to the battery increases and the charger delivers a medium to high charging current in order to reach 80% recharge of the battery.

### ③ ABSORPTION:

During the absorption step, the charger supplies a constant voltage up to a complete recharge of the battery.

### ④ MAINTENANCE:

Once the battery is fully charged, the charging voltage decreases in order to reach maintenance voltage. This keeps the battery at full charge and ready to use.

## How to choose the right Accu-Smart®?

MODELS	BATTERY CAPACITY	MAX. CHARGING TIME	MAINTENANCE
12V-1A	1.2Ah ▶ 35 Ah	35h	1.2Ah ▶ 80 Ah
12V-2A	1.2Ah ▶ 50 Ah	25h	1.2Ah ▶ 100 Ah
12V-4A	7Ah ▶ 120 Ah	30h	7Ah ▶ 160 Ah
12V-7A	14Ah ▶ 210 Ah	30h	14Ah ▶ 250 Ah
12V-10A	20Ah ▶ 250 Ah	25h	20Ah ▶ 300 Ah
24V-3.5A	7Ah ▶ 105 Ah	30h	7Ah ▶ 250 Ah

## Accu-Smart® - 12V models



### TECHNICAL SPECIFICATIONS

	12V-1A	12V-2A	12V-4A	12V-7A	12V-10A
Reference	845121	845122	845124	845127	845120
Charging tension			14,4V max.		
Nominal AC voltage			220V-240VAC – 50/60Hz		
Max. charging current	1A	2A	4A	7A	10A
Length of AC cord	1,70 m	1,70 m	1,70 m	1,70 m	1,70 m
Length of DC cord	1,90 m	1,90 m	1,90 m	1,90 m	1,90 m
Water and dust insulation			Equiv. IP 65		
Size of the charger (cm)	19 (L) x 6,5 (l) x 4,5 (h)		25,5 (L) x 9,5 (l) x 6 (h)		
Weight of the charger	0,45 kg	0,45 kg	0,58 kg	0,90 kg	1,2 kg
Max. Current consumer	12W	24W	36W	72W	108W

## Accu-Smart® - 24V model



### TECHNICAL SPECIFICATIONS

	24V-3.5A
Reference	845243
Charging tension	28,8V max.
Nominal AC voltage	220-240VAC – 50/60Hz, max. 126W
Maximal charging current	3,5 A
Length of AC cord	+/- 1,70 m
Length of DC cord	+/- 1,90 m
Water and dust insulation	Equiv. IP 65
Size of the charger (cm)	25,5 (L) x 9,5 (l) x 6 (h)
Weight of the charger	0,70 kg
Max. Current consumer	72W

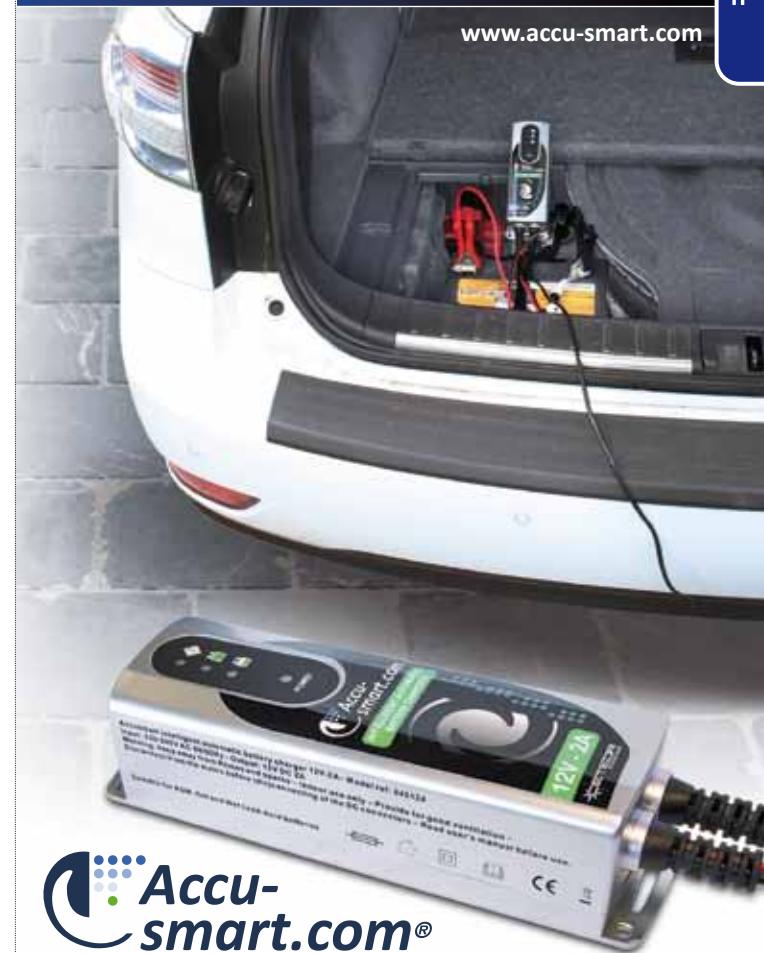


**Supply function:** All chargers have a supply function allowing the connection of a current consumer during the recharge.

## STATIONARY VEHICLES ?

## AVOID THE PREMATURE FAILURE OF YOUR BATTERIES !

[www.accu-smart.com](http://www.accu-smart.com)



 **Accu-smart.com®**

*The most « easy to use »  
charger and maintainer in the world !*

YOUR DISTRIBUTOR:



✓ Automatic ✓ Electronic ✓ Intelligent

## A totally automatic charger, that works for you!

For an optimal recharge of all types of 12V lead-acid batteries (wet, MF, AGM and Gel).



## Did you know that your batteries suffer from self-discharge?

Lead batteries get discharged even without being used ! The loss of capacity can reach up to 6% per month (at 20°C) and even more by higher temperature.

Yet below 12,4V, lead batteries start to sulphate. The more one battery is discharged and the longer it stays discharged, the more sulphate covers the lead plates inside. This sulphate will corrode the lead and damage the battery irreversibly.

Moreover, contrary to other types of batteries, lead batteries do not suffer from memory effect and must be charged as often as possible. Ideally, the recharge must be permanent and done with an electronic automatic charger.

**Accu-Smart®: the essential tool to preserve the battery of following vehicles:**

- Old timers cars and motorbikes
- Agricultural and garden vehicles
- Leisure vehicles, motorhomes
- Boats
- Vehicles in showrooms, in stock or on parking lots
- Rental vehicles
- Mountain vehicles
- ...



For more information on batteries sulfation,  
flash this code or consult our FAQ on  
[www.ceteor.com](http://www.ceteor.com)

## Accu-Smart®:

- ✓ Guarantees and extends the batteries' lifetime
- ✓ Maintains the batteries at their maximal capacities
- ✓ Guarantees full security during the recharge

## Accu-smart® : the advantages of the ultimate technology

### 1- LIGHT, COMPACT AND POWERFUL

Accu-Smart®, electronic "switched-mode" battery charger, offers a much greater lightness, compactness and power compared to the old chargers using "linear-mode technology" with transformers.



### 2- PLEASURE AND EASINESS OF USE

No need of handling or mode selection, the charger works automatically, without external intervention.

Accu-Smart® disposes of a regulator which allows the totally secure charging of the battery, contrary to the chargers with older technologies. Once connected, the Accu-Smart® manages and regulates the charge of the battery. You can therefore leave it connected on the battery continuously for months or years.

### 3- TOTAL SECURITY DURING RECHARGE

The Accu-Smart® chargers restart in case of power cut and give a total protection against :

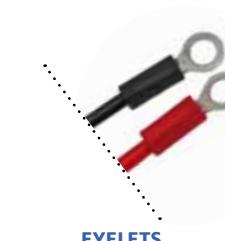
- ✓ short-circuits
- ✓ inversion of polarity
- ✓ peaks of voltage (AC or DC)
- ✓ over-heating
- ✓ spikes

They are also perfectly safe for the electronics of the vehicles; it is therefore not necessary to disconnect the battery from the vehicle before charging it.

## 4- ADAPTED ACCESSORIES FOR ALL APPLICATIONS !

The Accu-Smart® chargers are delivered with interchangeable accessories allowing an easier connection. A waterproof end-fitting allows you to plug the connector that suits best your application:

- **EYELETS:** to be connected on the battery terminals when they are difficult to reach. Ideal for a long-term connection.
- **CIGAR-LIGHTER PLUG:** to recharge the vehicle's battery through the 12V outlet.
- **CROCODILE CLAMPS:** for a universal connection.



EYELETS  
(\*EXCEPT ON 24V MODEL)



CIGAR-LIGHTER PLUG\*  
(\*EXCEPT ON 24V MODEL)



CROCODILE CLAMPS

## 5- ERGONOMIC DESIGN

The modern design of Accu-Smart® has been developed following practical aspects.



- Fixation cuts, allowing an easy hanging on the wall, in the workshop.

- Both cords for the connection to the mains and on the battery are placed on the same side which makes the hanging of the charger easy and protects it from projections of water and dust.