

# SC10 1A Charger



The **SC10** is the smallest smart charger in the **SC Power** line-up.

Our smart charger/maintainer is ideal for motorcycles, scooters, jet skis, ATVs and lawn mowers.

The charger is fully automatic for both 6 and 12V lead acid batteries, and has the ability to reverse sulfation in most 12V lead acid batteries.



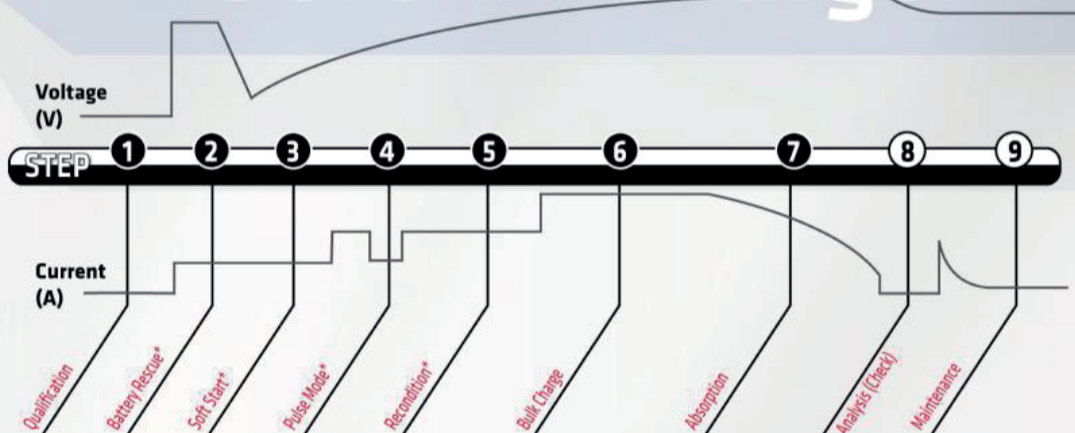
**Heavy Duty crocodile clamps with soldered leads and an O-ring for easy connections are included**

## Technical specifications:

<b>Applications</b>	For all lead acid batteries (Conventional, Gel, AGM) up to 60 Ah
<b>Input voltage</b>	100-240 volts automatic
<b>Output voltage</b>	6V / 12 volts selectable
<b>Output current</b>	1 A
<b>Charging program</b>	The <b>SC10</b> , through its advanced microprocessor, performs up to 9 different charging/inspection functions on 12 volt batteries. While 6 volt batteries have 4 separate charge/inspection functions available. The <b>SC10</b> will reverse sulfation in most batteries.
<b>Ingress protection rate</b>	IP 65
<b>Safety features</b>	Reverse polarity, short circuit, spark proof, overload, overheat and auto-stop
<b>Certifications</b>	<b>CE RoHS</b>
<b>Sizes</b>	L 122,5 mm x W 74 mm x H 42 mm
<b>Weight</b>	320 gr



## 9 step charging curve • Lead/Acid 12 volts



**Steps 2, 3, 4 and 5 are desulfation**

**1. QUALIFICATION** : ensure the battery is in good condition before launching of normal charge processes.

**2. BATTERY RECOVERY** : battery recovery starts if battery voltage has increased abnormally during the first charging cycles.

**3. SOFT START** : a soft charge starts when the charger has detected a battery at a very low initial state of charge

**4. PULSE MODE** : This pulse charge helps the newly recovered battery to continue to accept charge as it enters the reconditioning step.

**5. RECONDITIONING** : the reconditioning step starts once pulse charge is complete. During this step, the battery is charged with a higher voltage and current to "re-activate" the battery plates

**6. BULK CHARGE** : when the battery is now having gone through Qualification and Recovery steps, the Bulk Charge gives the battery constant current, taking the battery up to 80 % of its full capacity

**7. ABSORPTION**: during this step, a constant voltage is given to the battery while current is decreasing. This step allows the battery to be 100% charged

**8. ANALYSIS AND CHECK** : the battery will now be checked to ensure that it is holding the charge

**9. MAINTENANCE** : the battery can be left safely connected to the charger indefinitely. The charger will constantly monitor the battery and "turn on" again as needed to maintain the battery at a full state of charge.

\*Asterisks denote the steps of battery recovery processing (desulfation)

## 4 step charging curve • Lead/Acid 6 volts

