

SC38 3,8 A Charger



The **SC38** is our universal Lead Acid/12V Lithium charger in the **SC Power** line-up and is suitable for small vehicles (motorcycles, scooters, lawn equipment, ...), and for vehicles with battery capacities up to 120 Ah.

This charger is fully automatic for 6 V and 12V Lead Acid batteries and for all 12V Lithium starting batteries (LiPO or LiFePO4)

This charger 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

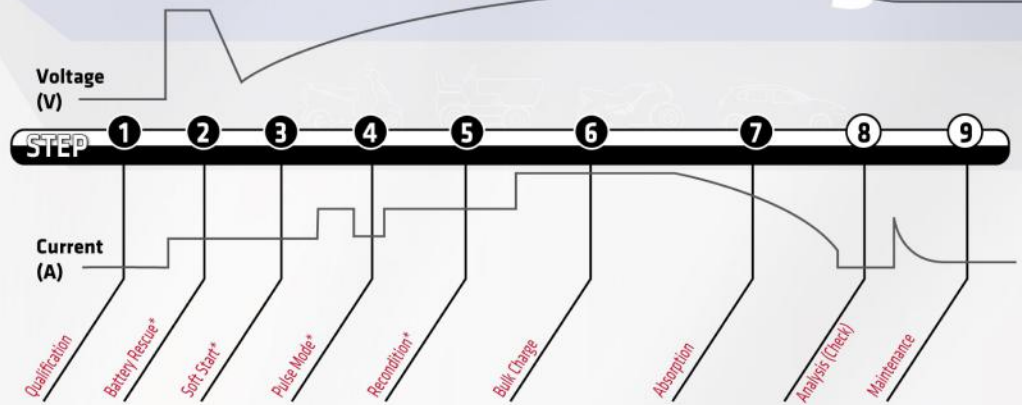
Technical specifications:

Applications	For all Lead Acid 6V/12V batteries up to 120 Ah and 12V Lithium batteries (LiPO and LiFePO4)
Input voltage	100-240 Volts automatic
Output voltage/current	6 V -> 0,8 A 12 V -> 0,8/3,8 A selectable
Charging program	The SC38 , through its advanced microprocessor, performs up to 9 different charging/inspection functions on 12 volt Lead Acid batteries. While 6 volt batteries have 4 separate charge/inspection functions available. The SC38 will reverse sulfation in most batteries.
Ingress protection rate	IP 65
Safety features	Reverse polarity, short circuit, spark proof, overload, overheat and auto-stop
Certifications	CE RoHS
Sizes	L 156 mm x W 98,6 mm x H 50,2 mm
Weight	530 gr



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9 step charging curve • Lead/Acid 12 volts



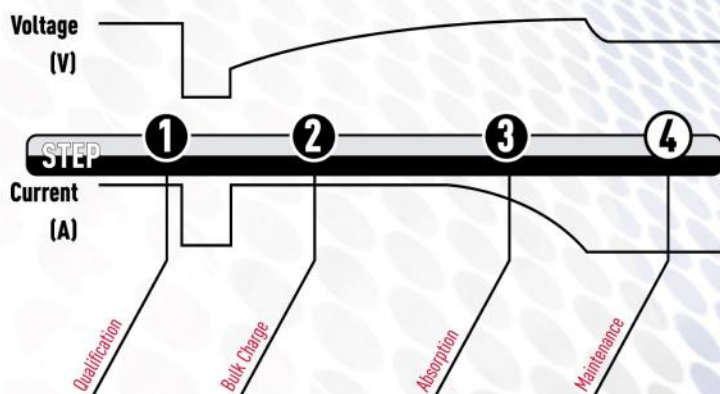
Steps 2, 3, 4 and 5 are desulfation

- 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, Lithium 12 v



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