SC120 6/12/24v Charger

The **SC120** is a smart and versatile charger for recharging 6V / 12V / 24V liquid acid (with filler caps or sealed), AGM, and GEL batteries.

It has high performance 9 phases microprocessor-controlled charging programs for the reconditioning of 12V sulfated batteries (to reverse sulfation).

Crocodile clamp

Permanent connection cable with 15 A fuse

Technical specifications :

Applications	For Liquid batteries (with caps or sealed), AGM, GEL of 6V, 12V and 24V from 30 Ah to 480 Ah
Input voltage	200-240V AC 50 / 60Hz 200W
Output voltage	6V DC / 12V DC / 24V DC
Output voltage/current	3A (6V battery) 3A, 6A, 12A (12V battery) 3A, 6A (24V battery)
Charging program	9 charging steps with desulfation controlled by advanced microprocessors for 12V batteries (5 charging phases for 6 and 24V batteries)
Ingress protection rate	IP 20
Safety features	Reverse polarity, short circuit, spark proof, overload, overheat and auto-stop
Certifications	CE RoHS
Sizes	L 231 mm x W 131,4 mm x H 68 mm
Weight	1200 gr

More informations

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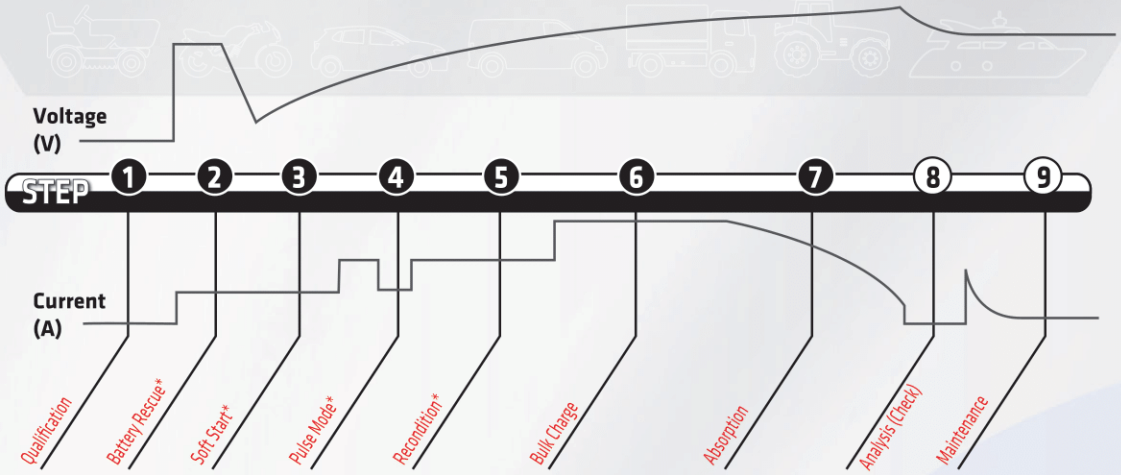
9 step charging curve

SC120 6/12/24v Charger

9 Stage charge for 12v Lead Acid Battery, conditioning and maintenance process

5 Stage charge for 6v and 24v Lead Acid Battery, conditioning and maintenance process. Process except step 2 (Battery rescue)



Steps 2, 3, 4 and 5 are desulfation

1. Qualification phase : Initially ensures the battery is in good condition prior to launch of normal charge processes, as a safety measure charge processes will not begin if battery is below 4 volts.

2. Battery rescue phase : Battery rescue starts if battery voltage has risen unusually high in the early portion of the recharge cycle. This usually caused by plate sulfation. Once the battery rescue phase has succeeded in getting the battery to accept power, normal battery charging will begin.

3. Soft start phase : Soft start is applied when the charger has detected a battery at a very low initial state of charge. Voltage and current are delivered at a specified rate to help the battery to recover prior to entering pulse charge mode.

4. Pulse mode phase : Pulse mode provides a pulse charge to help the newly recovered battery to continue to accept charge as it enters the reconditioning phase. To maintain the battery at a full state of charge.

5. Reconditioning phase : The reconditioning phase follows when the pulse mode is completed, charging at a slightly higher voltage and amperage to «re-active» the battery plates allowing for an improved charge acceptance and depth of charge.

6. Bulk charge phase : With the battery now having gone through Qualification and Recovery phases as needed the Bulk Charge gives the battery constant current, taking the battery up to 80 % of its full capacity.

7. Absorption phase : In the absorption phase, the battery is given constant voltage while current is reduced based on actions taken from ongoing battery monitoring until the battery is 100% charged

8. Analysis (check) phase : The battery will now be checked to ensure that it is holding the charge properly and the charger will determine if the battery is ready for use or not.

9. Maintenance phase : 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 readiness.

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

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