

BATTERY CHARGER For Lead Acid batteries 1.2-120AH

User's Manual and Guide to Professional Battery Charging

INTRODUCTION

There you for your kind purchase of our ESS-12000 fully automatic switch mode buffery charger. ESS-12500 was designed for charging a variety of SLA (sealed level acid) Bufferles, widely used in motorbikes, cars and several other witholes very early. ESS-12500 will help you to use your buffery much longer. Please-read this user manual and follow the instructions carefully before using the charger.

- Electronically safe against user's errors. The charger will not damage which electronics.
 Though it was commediately for a long time. It is totally safe for trailers the right of over charging.
 Full protection against wrong connection and against short circuit ensures safe charging operation.
- If how the Speck protection mechanism. Duest send replace's proof.

BATTERY TYPES

The following recommendations should only be considered as guidelines. In the event of uncertainty always refer to the battery manufacturer's recommendations. ESF-12000 is suitable for charging all types of 12V lead-acid batteries, open batteries, MF, ACM and most

GEL between Between from 1.2 to 30 MH. The charger can maintain betteres up to 130 MH.

CAUTION FOR SAFTY

- ES-12000 charger is designed to charge 12V lead-acid batteries from 1.2 to 33AH.
 However the charger can maintain batteries up to 125AH. Do not use the charger for any other purpose.
- The charger is not intended for use by young children or infirm person. Use safety glasses, gloves, and potentive dofting and turn your head when connecting or
- · Battery and in company. Rims immediately with maker if acid community contact with skin or eyes.
- Do not use the charger with damaged cable. It must be required by an authorized technicism. While charging, a battery can end explante gases, so it is important to avoid sparts or amoting in the
- intervediate area.
- Aural explosive and flammable substances such as fuel or solvents, and base providing proper
- dion during charging.
- Do not charge a demaged battery.
 Do not charge a frame battery.
- Do not place the charger on the battery while charging.
 Before charging, make sure the input is within allowed sating level, otherwise charging performance. may be seriously affected.
- Always check that the charger has gone over to maintenance charging mode before leaving the charger unaffended and connected for long periods. If the charger had not gone over to maintenance charging
- within 3 days, this is an indication of a problem. In this case the charger must be disconnected ma- Discorned the bettery from the charger when charger is not connected to the power supply. This will reduce book drain purrent.
- Charging must be stopped immediately if battery is found to be too hot or leaks out liquid during charging. . Only mount the charger on a flat surface.
- All bullaries fail sooner or later A battery that talls during charging is normally taken care of by the chargers advanced control, but certain uncommon errors in the battery can still arise. Don't leave the

bettery charger unattended for a longer period of time.

- Charging deflations requested in a vehicle:

 1. The power cord should be discorrected before connecting or deconnecting the battery leads.
- 2. Identify the pole that is grounded (attached to the chassis). Ground is normally connected to the
- 3. Charging a negatively grounded battery. Connect the red wire to the positive pole of the battery and the black cable to be vehicle's chassis. Se careful not to connect the black cable in the vicinity of a fuel property or beattery.
- Changing a positively grounded battery. Connect the black wire to the negative pole of the battery and the red cable to the vehicle's chassis. Be careful not to connect the ned cable in the vicinity of a fuel

Charging of a bettery not connected to a vehicle:

1. The power cost should be disconnected before connecting or disconnecting the battery lead. The power cont should be disconnected before connecting to accomplish the regalive pole.
 Connect the red wire to the positive pole of the battery and the black cable to the negative pole.

Connecting the provided cables with eyelet terminals: Make sure that the cable is not being pinched or in contact with warm surface or sharp edges. When the cable is mounted on the battery it should not be connected to the charger. Connect the eyelet terminals is the battery's poles - the ned cable to the positive pole and the black oatile to the negative pole. After this the guide contact can be connected.

Reverse Polenty Protection
If the battery caches are connected incorrectly, the reverse polenty protection will make sure that the
charger and the battery are not demograf, in the case, the red earning temps will be it.



SMART BATTERY Charger for all types of Automotive batteries.

Starting of arging

- Once you have checked that the battery leads have been connected correctly, you can start charging by connecting the charger to the wall socket. If the battery leads have been connected incorrectly the terity revening protection will oncure that relities the charges not the ballery will be damaged. The fault indicating lamp will then some on. In this the case, start from point 1 under "Connecting the charger"
- The charging lamp or the maintenance charging lamp will now come on. When the maintenance charging lamp comes on the battery is fully charged. When the battery's vollage drops the charger will send a puter to the bettery. The pulse length depends on how much the voltage has drupped. The charger can be connected for months.
- 3. If nothing happens, if none of the lamps some on this may be due to the connection to the battery or chassis is poor or that the bettery is faulty or had a too low terminal voltage. Another cause may be a tack of voltage in the wall socket.
- 4. Charging can be stopped at any time by disconnecting the charger's power cont. Always disconnect the power cord before disconnecting the battery leads. When you stop charging a battery fitted in a vehicle you should always disconnect the battery lead from the chassis before you disconnect the battery lead from the chassis before you disconnect the other
- If the charging lamp and maintenance charging lamp attenuitely flesh the reason for this is the following:If the lamps flesh a few times per second then the bettery is probable sulphated. If the lamp fashes more tran 60 minutes the battery should be replaced.
 - If the fainfring occurs with a line minutes interval then the believy has a high self-decharge and may need to be replaced.

TEMPERATURE PROTECTION

\$55-12000 is protected from being overheated. The power will be reduced if the ambient temperature is mixed.

The charger is maintenance first, Note that disassembly of the charger is not permitted and will visit the numerity. If the power cord is damaged, the charger must be left is the resolution for maintenance. The cose can be cleaned with a soft damp-doft and mild desenser. The charger should be disconnected from the property while described

EQUIPMENT

ESI-12000 is delivered with a set of battery leads with battery pole diarros and a set of battery leads with

TECHNICAL SPECIFICATION

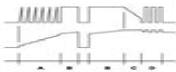
Woltinger, RC	170-350 VNC, 50-50Hz
Book ourself drain?	+TuNoremenths
Wolfage	Charging Voltage Nominal : 12V, 14.6V
Plante -	Max S0mV mms. Max 0.05A
Content	0.5A-max
Acritical Temperature	420°C to HIGC, power is reduced automatically at increased ambient temperature.
Clooking	Natural convection
Charging cycle	CSi-12000 is a multistage fully automatic charger
Type of builteries	All types of 12Y lead-acid betteries (Wet, MF, VPLAROM and GEL)
Buttery convectly	1.2 to 30AH, up to 120At for maintenance
Chimemokon	14Q x 57 x 36 mm (L x W x H)
Endouse dass	P 60°
NET Wasgitt	0.3 kg

- Stack Current Drain is what the charger used to drain the battery if the power cond is disconnected. Quality of the current and voltage are very important. High current ipple heats up the battery and makes the positive electrode age prematurely. High voltage roote could from other equipment.
- connected to the battery. ESI-12000 produces a high quality current and Voltage with very low ripple. *** If the power connected is the flat European contact type, the battery change has insulation class. IPES, except in Switzerland where IP 65 is valid.

CHARGING TIME

as be kindly informed the length of time for Builds of housesterness

Buttery Stee (Art)	Time to-80% charge (H):		
- 2	2		
- 8	8		
20	20		
48400	4000		



- A: I repeats charging as charger is automactically on and of until it reaches about TVolts.
- Charging proceeds with almost constant current. B. When changing completed with aimost constant current, changing proceeds with aimost constant voltage SI fully charged.
- C : As charger continuously monitors the terminals voltage in order to determine if a maintance charging Manager and State (millionly)
- D. If the ballery vollage becomes to under 1410 it stats to charge and stops at 14.40 and it continues this process till the AC power supplying is stopped.

Manual Battery Charger Instruction

AAMI Staff



The Enigmatic Realm of Manual Battery Charger Instruction: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Manual Battery Charger Instruction** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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Manual Battery Charger Instruction Introduction

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