

OWNER'S MANUAL

VOLT

POLSKA

8A VOLT POLSKA Automatic Smart Battery Charger

SAVE THESE INSTRUCTIONS

This manual contains important safety and operating instruction. To reduce the risk of injury, please read all instructions and follow them with each use of this product.

IMPORTANT SAFETY INSTRUCTIONS

WARNING - BURST HAZARD

Do not use the unit for charging dry-cell batteries that are commonly used with home appliances. These batteries may burst and cause injury to persons and damage property. Use the unit for charging/boosting a LEAD-ACID battery only.

WARNING - SHOCK HAZARD

- Do not operate unit with damaged cord or plug; or if the unit has received a sharp blow, been dropped, or otherwise damaged in any way. Do not disassemble the unit; incorrect reassembly may result in a risk of electric shock or fire.
- NEVER submerge this unit in water; do not expose it to rain, snow or use when wet.
- To reduce risk of electric shock, disconnect the unit from any power source before attempting maintenance or cleaning.

WARNING - RISK OF EXPLOSIVE GASES:

- Working in the vicinity of a lead acid battery is dangerous. Batteries generate explosive gases during normal battery operation. For this reason, it is of the utmost importance that each time before using the charger you read this manual and follow instructions exactly.
- To reduce the risk of battery explosion, follow these instructions and those published by the battery manufacturer and manufacturer of any equipment you intend to use in the vicinity of the battery.
- This equipment employs parts that produce arcs or sparks. Therefore, if used in a garage or enclosed area, the unit MUST be placed not less than 18 inches above the floor.
- **THIS UNIT IS NOT FOR USE BY CHILDREN AND SHOULD ONLY BE OPERATED BY ADULTS.**

CAUTION - TO REDUCE THE RISK OF INJURY OR PROPERTY DAMAGE:

- Pull cord by plug rather than cord when disconnecting the unit from the power source.
- NEVER ATTEMPT TO JUMP-START OR CHARGE A FROZEN BATTERY.
- When working with lead acid batteries, always make sure immediate assistance is available in case of accident or emergency.
- Always have protective eyewear when using this product: contact with battery acid may cause blindness and/or severe burns. Be aware of first aid procedures in case of accidental contact with battery acid.
- Have plenty of fresh water and soap nearby in case battery acid contacts skin.
- If battery acid contacts skin or clothing, wash immediately with soap and water for at least 10 minutes and get medical attention immediately.
- Never smoke or allow a spark or flame in vicinity of vehicle battery, engine or battery charger.
- Remove personal metal items such as rings, bracelets, necklaces and watches when working with a lead acid battery. A lead acid battery can produce a short circuit current high enough to weld a ring, or the like of a metal, causing a severe burn.

- Never allow battery acid to come in contact with this unit.
- Do not operate this unit in a closed area or restrict ventilation in any way.

FIRST AID – SKIN:

If battery acid comes in contact with skin, rinse immediately with water, and then wash thoroughly with soap and water. If redness, pain, or irritation occurs, seek immediate medical attention.

• FIRST AID –EYES:

If battery acid comes in contact with eyes, flush eyes immediately, for a minimum of 15 minutes and seek immediate medical attention.

PRODUCT FEATURES

- Using state of the art technology, the battery Charger with 5 steps enables the re-charging of Batteries to almost 100% of their original capacity.
- Automatically diagnose, recover, charge and maintain batteries for months, fully automatic operation from Charge to Maintenance modes.
- Three output options are available – 24V , 12V and 13.6V/5A Power Supply.
- Different charging current 4 / 8 A
- Supplied with two detachable and interchangeable color coded lead sets one with clamps for bench charging and one with eyelet terminals for permanent attachment to the battery posts to allow quick connection/disconnection through connector.
- No risk of over charging
- Electronically safe against user error
- Spark proof
- Over heat protection with mini cooling fan inside
- Full protected against short circuit and wrong connections
- Works as power generator (13.6V/4A)

OPERATION INSTRUCTIONS


1. Connecting the terminal rings/clamps directly to the corresponding connectors on the battery posts.





Note:

Make sure correct polarity connection before plugging in the AC power.

- Position the RED terminal on the POSITIVE post connector
- Position the BLACK terminal on the NEGATIVE post connector

2. Connect the AC power cord with the AC power outlet.




- The Power LED indicator turns on after the connection. 
- The charger will automatically select the right voltage according to the battery voltage type and the corresponding LED indicator will turn on.

Settings	14.4V	14.7V	28.8V	29.4V
SYMBOL				



Press Mode button 2 to 3 seconds to enter * for charging AGM batteries and in sub-zero temperatures.

- The Error LED indicator will turn on for incorrect polarity/Faulty.

Reverse polarity hook up	 ON
Bad batteries cannot be recharged	 Flashing for 12V batteries
	 Flashing for 24V batteries

- Charging rate select:
Dcharging rate is 4A, selecting the 8A charging rate by pressing the MODE button;
- Charging status LED indicators to display the battery charging level 25%, 50%, 75% and 100%.



3. Disconnect the AC power cord from the AC power outlet when fully charged. Then disconnect the connection with the battery.

Note:

- ALWAYS disconnect the AC power cord from the AC power outlet before connecting (or disconnecting) the charger to (or from) the battery.

CHARGING PHASES

1. Diagnosis & Recovery

As soon as charging instruction is given to the charger, the unique function automatically checks status of battery (detects voltage). If a deeply discharged battery's voltage is over $4.5V \pm 0.5V$ (for 12V battery) or $16V \pm 0.25V$ (for 24V battery), charger begins charging with 1.5A low current to recover it, which terminates when voltage reaches to $10.5V \pm 0.25V$ for (12V battery) or $21V \pm 0.25V$ (for 24V battery) at the beginning of the process, the charger skips low current charging and it switches over to charging mode.

2. Bulk Charging

80% of energy is returned in this phase of charging. Here charger performs in multi-stages:

- **For 24V battery**
Select 4A slow charge or 8A fast charge rate according to practical need;
- **For 12V battery**
Select 4A slow charge, 8A fast charge rate according to practical need;

3. Absorption

Use of a constant high current for extended periods of time risks gassing the battery, therefore a constant low charging current is given at 1.5A to raise voltage from 28.2V to 28.8V (for 24V battery) and 14.1V to 14.4V (for 12V battery). In this phase complete charging up to almost 100% is achieved. Charger switches to trickle charge phase after sensing that the battery is truly fully charged.

4. Maintenance Charge

As charger continuously monitors the terminal voltage in order to determine if a maintenance charging should be initiated, if the battery is loaded and/or terminal voltage falls below 25.6V (for 24V battery) or 12.8V (for 12V battery), the charger starts maintenance charging pulse at constant 1.5A until voltage reaches to 28.8V (for 24V battery) or 14.4V (for 12V battery). Now maintenance charging is discontinued. Cycle of trickle charging and maintenance charging is repeated indefinitely to keep battery in good condition when it is not in use and enables charger to be left connected indefinitely.

5. Supply 13.6V

a) **Maintenance of 12V SLA batteries:** This mode is suitable for maintenance of 12V batteries with capacity range from 14-230Ah. The charger delivers a constant output of 13.6V/4A. This is maintenance mode for applications where maximum capacity from the battery is

required, such as Golf Carts, Floor sweepers, etc.

b) **Power source:** It is also used as a power supply, without attaching a battery in this mode. The charger delivers 13.6V/5A.

To enter the 13.6V supply mode, here the steps:

- a. Disconnect the battery;
- b. Plug in the AC power;
- c. Press the MODE button for 3~5 seconds to active the function;

When this mode is activated, the charger MAX output will be 13.6V/ 5A.

In this mode, we can use the charger as a Power Supply to provide constant power to 12V DC appliances with 5A(max) output current.

TECHNICAL DATA:

Input Voltage:	105-125VAC, 60Hz or 200-240VAC, 50Hz
Output Voltage:	12V & 24V (auto-select)
Efficiency:	>75%
Charging Voltage:	14.4V±0.25V or 28.8V±2%
Charging Current:	8A±10% or or 4A±10%
Ambient Temp:	-10°C to +40°C, Reduced output power at higher temperature
Battery Types:	12V & 24V lead-acid batteries (WET, MF, AGM and GEL)
Noise level	<50db (Tested from a distance of 19.5inch or 50cm) with mini cooling fan inside

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