DIGITAL BATTERY CHARGER 12V 1-4A

Model: PRAKTIK CHARGER 4 LCD

Rated Voltage: AC 220-240V Rated Current: 0.7 Amp

Output: DC 12V 1Amp / 4Amp
DC 6V 4Amp

IMPORTANT SAFETY INSTRUCTIONS

1. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
2. Working in vicinity of a lead-acid battery is dangerous. Batteries generate explosive gases during normal battery operation. For this reason, it is of utmost importance that each time before using your charger, you read this manual and follow the instruction exactly.
3. To reduce risk of battery explosion, follow these instructions and those published by the battery manufacturer and manufacturer of any equipment you intend to use in vicinity of battery. Review cautionary markings on these products and on engine.
4. Use the charger in door only. Do not expose it to rain.

GENERAL SAFETY

1. **Use charger for charging LEAD-ACID batteries only.**
   Do not use battery charger for other types of batteries, which may burst and cause injury to persons and damage to property.
2. Use only attachments recommended or sold by manufacturer. Use of non-recommended attachments may result in fire, electric shock, or injury.
3. When disconnecting the battery charger, pull by the plug not by the cord. Pulling on the cord may cause damage to cord or plug.
4. Do not operate charger with damaged cord or plug. Have cord replaced immediately.
5. Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way. Take it to a qualified professional for inspection and repair.
6. Do not disassemble charger. Take it to a qualified professional when service or repair is required. Incorrect reassembly may result in electric shock or fire.
7. To reduce risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning.
8. Do not use an extension cord unless absolutely necessary. Use of an improper extension cord could result in fire or electric shock. If an extension cord must be used, make sure that:
   • Pins on plug of extension cord are the same number, size, and shape as those of plug on charger.
   • Extension cord is properly wired and in good electrical condition.
   • Wire size is large enough for AC ampere rating of charger
10. **Always charge battery in a well ventilated area. NEVER** operate in a closed-in or restricted area without ad-equate ventilation. **WARNING**: Risk of explosive gas.
11. Locate charger as far away from battery as DC charger cable's permit.
12. Do not expose charger to rain or snow.
13. **NEVER** charge a frozen battery. If battery fluid (electrolyte) is frozen, bring into a warm area to thaw before charging.
14. **NEVER** allow battery acid to drip on charger when reading specific gravity or filling battery.
15. **NEVER** set a battery on top of charger.
16. **NEVER** place charger directly above battery being charged. Gases from battery will corrode and damage charger.
17. **NEVER** touch the battery clips together when the charger is energized.
18. **NEVER** crank engine with charger attached to battery.

PERSONAL PRECAUTIONS AND SAFETY

1. WARNING: Wear complete eye protection and clothing protection, when working with lead-acid batteries.
2. Make sure someone is within range of your voice or close enough to come to your aid when you work with or near a lead-acid battery.
3. Have plenty of fresh water and soap nearby for use if battery acid contacts skin, clothing, or eyes. If battery acid contacts skin or clothing, wash immediately with soap and water.
4. Avoid touching your eyes while working with a battery. Acid particles (corrosion) may get into your eyes! If acid enters your eye, immediately flood eye with running

cold water for at least 10 minutes. Get medical attention immediately.

5. Remove all personal metal items such as rings, bracelets, neck laces, 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
6. Take care not to drop a metal tool or other metal onto the battery. Metal may cause sparking or short circuit the battery or another electrical devise. Sparking may cause an explosion.
7. Always operate battery charger in an open well ventilated area.
8. NEVER smoke or allow a spark or flame in the vicinity of the battery or engine. Batteries generate explosive gases!

HOW TO CHARGE

1. Connecting the charger to the battery.

The charger's output leads have color-coded battery clips (RED-POSITIVE and BLACK-NEGTIVE). Connect these directly to the corresponding connectors on the battery posts.

2. Connect the charger to AC power socket. The LCD screen will light on.

3. Press the 

button to select charging program. Settings are made by pressing the "MODE-button" and stepping forward by pressing the button one step at a time, releasing the button when the required mode is reached.

4. Stop charging at any time by disconnecting the mains cable from the wall socket.

BATTERY TYPES AND SETTINGS

	To select charging mode or re-set during charging.
	Battery voltage
	Battery repairing
	**12V Slow mode: 14.4V/1.0A** This mode is normally used for all types of 12V batteries <20Ah
	**12V Fast mode: 14.4V/4.0A** This mode is normally used for all types of 12V batteries <80Ah
	**Winter mode: 14.7V/4.0A** This setting is recommended for batteries at temperatures below 5°C. It is also recommended for many AGM batteries.
	**Mode 7.5V/4.0A** This mode is normally used for all types of 6V batteries <80Ah
	**Charging status indicator** This column will show charging status. When the battery is fully charged, the word "FULL" will show up.

WARNING: **DO NOT** attempt to charge a frozen battery.

FAULT CODES

F1	1. No clamps connected. 2. Short circuit 3. Reverse polarity connection
F2	Loose clamps during charging.
F3	Battery voltage is too high.
F4	Bad battery.

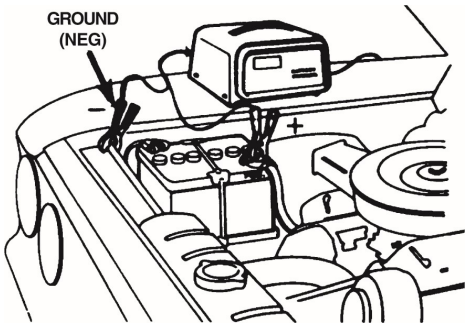
MEMORY FUNCTION

This charger has Memory Function. It will return to last mode you chose next time the charger is connected.

CHARGING BATTERIES IN VEHICLE

1. Position AC and DC cords to reduce risk of damage by hood, door, or moving engine part.
2. Stay clear of fan blades, belts, pulleys, and other parts that can cause injury to persons.
3. Check polarity of battery posts. POSITIVE (POS, P, +) battery post usually has larger diameter than NEGATIVE (NEG, N,-) post.
4. Determine which post of battery is grounded (connected) to the chassis.

   If negative post is grounded to chassis (as in most vehicles), connect POSITIVE (RED) clip from battery charger to POSITIVE(P05, P, +) ungrounded post of battery. Connect NEGATIVE (BLACK) clip to vehicle chassis or engine block away from battery. Do not connect clip to carburetor, fuel lines, or sheet-metal body parts. Connect to heavy gauge metal part of the frame or engine block



   If positive post is grounded to the chassis, connect NEGATIVE (BLACK) clip from battery charger to NEGATIVE (NEG, N, -) ungrounded post of battery. Connect POSITIVE (RED) clip to vehicle chassis or engine block away from battery. Do not connect clip to carburetor, fuel lines, or sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.
5. When disconnecting charger, disconnect AC cord first, remove clip from vehicle chassis,

and then remove clip from battery terminal. is operating.

6. Do not charge the battery while the engine

CARE AND MAINTENANCE

With only minimal maintenance, this Battery Charger will deliver years of dependable service. Follow these simple steps to maintain the charger in optimum condition: After each use, clean the battery charger clamps - be sure to remove any battery fluid that will cause corrosion of the copper clamps. Clean the outside case of the charger with a soft cloth and, if necessary, mild soap solution. Keep the charger cords loosely coiled during storage to prevent damage to the cords. Do not use the charger if cords or clamps have been damaged in any way. If the power supply cord is damaged, it must be replaced by the manufacturer, its service agent or qualified person in order to avoid a hazard.