BUSPRO SERIES

SPECIFICATIONS

Charges .............................................. 12 Volt Batteries
Input .................................................. 110 VAC @ 5 Amps
Charging output mode .............................. 5 Amps Max.
Maintenance output mode ------------ 0 to 2.5 Amp variation as needed
Leads .................................................... 6 ft. 18 GA.
Size ..................................................... BusPro 600 - 26" W 8" H 3.25" D
..................................................... BusPro 300 - 14" W 8" H 3.25" D
Weight ................................................. 31 lbs. - BusPro 600
..................................................... 17 lbs. - BusPro 300
Optional AC-8 Jumper Leads ...................... Set of six

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LIMITED WARRANTY

12 MONTHS FROM DATE OF PURCHASE
CABLES 90 DAYS
The manufacturer warrants to the consumer that this product will be free from defects in material or workmanship for a period of twelve (12) months from the date of original purchase. Products that fail within this 12 month warranty period will be repaired or replaced at the manufacturer's option to the consumer, when determined by the manufacturer that the product failed due to defects in material or workmanship. This warranty is limited to the repair or replacement of parts and the necessary labor by the manufacturer to effect the repair or replacement of the product. In no event shall the manufacturer be responsible for special, incidental or consequential damages or costs incurred due to the failure of this product.

Improper use, accident, water damage, abuse, unauthorized repairs or alterations voids this warranty. The manufacturer disclaims any liability or consequential damages due to breach of any written or implied warranty on its test equipment.

WARRANTY AND SERVICE INFORMATION
Warranty claims to the manufacturer's service department must be transportation prepaid and accompanied by a dated proof of purchase. This warranty applies only to the original purchaser and is non-transferable. Freight damage incurred during return shipments is not covered under this warranty. It is the responsibility of the shipper (the customer returning the Test Equipment) to package the tester properly to prevent any damage during return shipment. Repair costs for such damages will be charged back to shipper (customer returning the Test Equipment). Protect the product by shipping in original carton or add plenty of over-pack cushioning such as crumpled up newspaper.

For Service Please Contact:

Auto Meter Products, Inc.
413 West Elm Street
Sycamore, IL 60178
Phone: 866-883-8378
Fax: 815-895-6786
test_service@autometer.com
What To Expect From Your BusPro Charger

The Professional Charger is equipped with sophisticated circuitry that will:

- **Check Each Battery’s Condition** The charger will indicate bad batteries that are sulfated or have bad cells. This allows the battery to be replaced without unnecessary charging.
- **Every Station Can Fully Charge One 12 volt Batteries** (5 Amps. each). With the optional Jumper Lead Kit the BusPro 600 can charge up to twelve batteries at 2.5 Amps each and the BusPro 300 can charge up to six.
- **Maintain Each Battery** The charger provides a separate charging station for each battery.
- **Provide Worry Free Attention** The charger has safe circuitry that automatically adjusts the volt/current relationship in order to maintain the battery at full charge. If the voltage drops below 12.5 volts, the charger will automatically charge the battery with up to 5 Amps. When the battery reaches the threshold again the unit goes into maintenance mode.
- **Maximize Battery Life** The charger is designed to maximize the life of a serviceable lead acid battery. A serviceable battery is a battery that is not defective or damaged. The charger is fully compatible with gelled electrolyte (gel-cell) batteries (sometimes used in place of liquid electrolyte batteries in many heavy duty applications). DO NOT USE WITH DRY CELL, NICKEL CADMIUM, and NICKEL METAL HYDRIE OR SIMILAR BATTERIES.
- **Increase Multiple Battery Charging Capability** The charger provides the opportunity to charge more batteries with less time spent charging defective batteries that need to be replaced.
- **Provide Valuable Protection** The charger maintains batteries while they are un-installed. Maintaining a battery increases its life and protects its capacity.
- **Maintain Batteries Not In Use**. Some examples are automobiles under long term repair, farm machinery and fleet vehicles in repair or storage. The charger is ideal for rental equipment not in use or for charging and maintaining batteries for replacement. The charger can be used to recharge, check and maintain all starting and deep cycle batteries.
- **Provide Easy Care** The charger is designed for easy care and maintenance. Occasional cleaning of the leads and housing will help keep the unit looking new, and give you many years of satisfaction. CLEANING PROCEDURE: Unplug the charger and use a slightly dampened cloth to clean the housing and lead sets. DO NOT use solvents or soaps.
- **Provide Long Lasting Performance** The charger has been designed and manufactured to provide superior performance. Quality is built in and assured with circuit burn-in, computerized testing and inspection.
- **Fuse Protected** Each charging station is protected by a replaceable AC fuse.

SAFETY INSTRUCTIONS

**WARNING:**

Lead Acid Batteries are Dangerous! During use and charging they may generate EXPLOSIVE Hydrogen Gas. This means YOU MUST carefully read all of the safety and operating instructions before using the chargers. Be sure you understand all of the safety instructions in this manual before attempting to connect, charge, or work with a lead acid battery.

**GENERAL SAFETY RULES FOR SAFE OPERATION**

Batteries are dangerous. Auto Meter provides the following **Warnings** for your safety:

1. Use the charger only on 12 Volt LEAD ACID, AGM Batteries and GELLED ELECTROLYTE (GEL-CELL) Batteries. DO NOT attempt to use on other types of batteries (Dry Cell, Nickel Cadmium, Nickel Metal Hydride, etc.) commonly found in small home appliances. This may cause the batteries to burst, resulting in damage or injury to person and/or property.
2. DO NOT use the charger on batteries that are in use or that are installed.
3. DO NOT use attachments with the charger that are not approved or sold by manufacturer. Non-approved attachments may result in injury, electric shock, or fire and voids the warranty.
4. When disconnecting the power cord from the wall, grasp the plug and pull. Never pull the cord, it may damage the plug and/or the cord.
5. Place the power cords in a location where they will not be stepped on, tripped over, or subjected to stress or abuse of any kind.
6. Never operate the charger if any portion of its housing, cords or attachments appear to be damaged in any way. If damage has occurred, have it inspected and serviced by the manufacturer.
7. If the charger has been dropped, received a sharp blow, or abused in any way, have it inspected and repaired by the manufacturer if necessary.
8. Do not use an extension cord to operate the charger. An inadequate extension cord could result in fire or explosion due to a large number of batteries being charged and will not provide the AC amperage rating needed by the charger.
9. Each charging Station has its own AC fuse. Other than this fuse replacement, the manufacturer should be contacted for trouble shooting and instructions on how to repair or replace parts and charging stations. Any unauthorized repair, tampering or incorrect assembly may result in fire or electric shock and voids the warranty. Check with the manufacturer for instructions.
10. To prevent injury during cleaning or maintenance, disconnect all batteries and move them away from the unit. Unplug the charger from the wall outlet (grasping the plug). Use a slightly dampened cloth to clean the housing and lead sets. Do not use solvents or soaps.
11. NEVER attempt to charge a frozen battery. Allow the battery to return to room temperature before connection.
12. ALWAYS use the charger in an open and well-ventilated area. The area should be dry and free of trash, debris and combustibles.
13. WARNING! Explosive Hydrogen gas may be present around batteries.
14. Do not use the charger in direct sunlight or adverse weather conditions such as rain or snow.
15. Mount the charger on a secure wall location at least two feet above the batteries being charged. This prevents acid drips and spills from reaching the charger during battery filling or specific gravity testing. This also prevents battery fumes from reaching the charger.
16. Do not place small objects or tools on the top edge of the mounted unit.
17. NEVER use the charger in or on any boat or watercraft. You must remove the battery from the boat or watercraft and charge the battery at the properly installed location of the charger unit.
18. DO NOT install the charger where it will be exposed to moisture, inclement weather nor around combustibles, flammable liquids or vapors and trash.

PERSONAL SAFETY PRECAUTIONS

1. Wear protective goggles or a full-face shield.
2. Wear protective clothing. Leave no exposed skin.
3. Have plenty of fresh water and hand soap available for use if acid should contact your eyes, skin or clothing.
4. Have someone close by in the event you need emergency assistance when working with a battery.
5. Remove all metal objects (pens, tools, jewelry, etc.) from your body. These items can create a direct short between the battery terminals and can cause serious burns.
6. DO NOT carry tools or metal objects within the vicinity of a battery. These items can fall on the battery terminals creating a high current short. This could result in a fire, burns, explosion, etc.
7. DO NOT touch your face, eyes or other body parts with out first washing your hands. Battery acid can burn and irritate eye and skin tissue.
8. DO NOT allow any source of ignition in the area of a battery. Keep all flame and spark producing devices out of the area and NEVER SMOKE near a battery.
9. Use the one hand rule! Keep one hand in your pocket whenever you make an electrical connection. This reduces the risk of electrical shock to the user.

Step 1 Hooking Up 3 Units

Hook 3 units together by plugging the next unit into the AC plug provided on the left end of the charger. Make sure the power source supplied to the first charger is adequate. A typical 120 Volt outlet will only supply 3 units.

Step 2 Using the Optional Lead Sets

Using optional AC-8 sets hookup two 12 Volt batteries in parallel to each station of the charger as shown.

Note: If red light flashes detach one battery to determine which battery is defective. Recommended for maintenance only or comparable batteries in size and state of charge.
The charger has two mounting keyholes. YOU MUST mount the charger to a wall that provides a secure surface. This will keep it out of the way and prevent damage due to accidents. If needed, you may leave the two screws slightly extended from the wall to allow easy removal through the keyhole slots.

**Caution:** In determining placement of the charger check the following:
- Make sure the batteries can be placed at least two feet away. For example, if the batteries are placed on the floor make sure the charger is mounted securely at least **two feet** above, but no more than the working length of the leads.
- Make sure the room has plenty of ventilation.
- Make sure no sparks or flames can occur near the charging area.
- Mount the charger away from vehicle repair or service area.
- Never start or run an engine near the batteries being charged. It takes very little to ignite explosive gases given off by a lead-acid battery. **Remember:** You may be charging several batteries at a time. This compounds the need for a strict safety program.

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**PROPER AC POWER CONNECTIONS**

Connect the charger to a grounded 120-Volt AC power receptacle that is wired in compliance with local electrical codes. If you do not know how to test a receptacle for proper ground, have a qualified electrician test it for you. A grounded receptacle will receive a plug with a round ground pin and two blade terminals. If the outlet will not receive a plug with a ground pin, you will need a temporary-ground adapter with a metal grounding tab shown to the right. Be sure the metal ground tab is securely screwed into the faceplate as shown. Use this adapter only as a temporary means of connection. Have a qualified electrician install a proper receptacle as soon as possible.

**WARNING!** Do not alter the plug or cord on the charger. Any alterations will void the warranty.

*See page 9 for hooking up three charger units together.*
2 INSPECTING THE BATTERY

Remove and Inspect the battery before connecting it to the charger. A clean battery and battery terminals ensure proper operation of the charger and the vehicle charging system.

- Check for dirty or loose terminals.
- Check for any cracks or distortion in the battery case.
- Make sure the battery is the correct group size and capacity for the vehicle.
- Make sure the battery is clean between battery posts to avoid self discharge.
- Check the electrolyte level.

Inspecting the electrical system: If the battery and terminals have a white or bluish crust on them, the charging system may be having problems. These problems should be corrected before the battery is installed.

3 HOOKING UP THE CLAMPS

Each charging station has a lead set with a red positive (+) and a black negative (-) clamp. If the charger has been installed correctly, at least two feet above the work station, the clamps should lie on a clean dry surface.

- Connect the RED clamp to the positive (+) terminal post. Turn or wiggle the clip on the battery post to insure a good connection.
- Connect the BLACK clamp to the negative (-) battery post.

NOTE: Side mounted and threaded steel post batteries will require Lead Post Adapters. Using steel bolts and connecting clamps to threaded steel posts is not safe, and will inhibit accurate results.

4 READING THE INDICATOR LIGHTS

The Professional BusPro Charger has two lights for each charging station.

No Light = Check the following:
- Connections reversed. Make sure the red spring clip is connected to the positive (+) battery post and the black spring clip is connected to the negative (-) battery post.
- Bad connection at one or both battery posts.
- No AC power.
- The battery voltage is below 1 volt.

NOTE: If a charging station is not charging check internal fuse.

Red Light = Charging - The Professional Charger is delivering up to a 5 Amp charge.

Red Light Flashing = Defective Battery: The charger is designed to detect either a sulfated battery or a bad cell. Make sure the battery posts and clamps are clean. If the red light continues to flash the battery should be replaced.

Red & Green light = Finishing Full Charge. “Ready for Load Test”: The battery is at least 70% charged and ready to load test and return to service. Continued charging will take the battery to full charge.

Note:
Some batteries will pass and accept a charge, but will not be able to pass a load test. All batteries should be load-tested after charging.

Green Light = Charged and Maintaining: The charger is safely adjusting the voltage/current relationship to maintain the battery at a full charge. The battery can be load tested. If the battery voltage drops below 12.5 volts, the charger shifts automatically into (Red Light) Charging Mode.