

# OWNER'S MANUAL

## INSTANT POWER™ Jump Starter & DC Power Source

THIS PRODUCT HAS A SEALED LEAD-ACID BATTERY INSIDE THAT SHOULD BE KEPT AT FULL CHARGE FOR LONGER LIFE. RECHARGE WHEN FIRST RECEIVED (EVEN IF GREEN 'FULL POWER' LED GLOWS), AFTER EACH USE AND EVERY 3 MONTHS.

### IMPORTANT SAFETY INSTRUCTIONS

Save these instructions

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Someone should be within range of your voice or close enough to come to your aid when you are working near a lead-acid battery.

Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes. If acid enters the eye area, rinse with cold water for at least 10 minutes and get medical help immediately.

Do not smoke, or use matches or cigarette lighter, or allow any spark or flame near the battery or engine.

Never operate the power source unit if it has damaged lead wire or clamps. Have the lead wire replaced by a qualified technician.

Wear complete eye and clothing protection when working with lead-acid batteries.

Do not permit the internal battery in the IP-1850FL to freeze. Never attempt to recharge a frozen battery.

#### HANDLING WARNING

**WARNING:** Handling the cord on this product or cords associated with this product, may expose you to lead, a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. *Wash hands after handling.*

#### OPERATING INSTRUCTIONS

**Warning: Failure to follow instructions may cause damage or an explosion. Read entire instruction manual before use.**

1. Turn ignition OFF before making cable connections.
2. Use in a well-ventilated area.
3. Keep clear of fan blades, belts, pulleys and other parts that may cause injury.
4. Make sure the power ON/OFF switch is in the OFF position until clamps are connected to the vehicle battery.
5. In the ON position, NEVER allow clamps to touch together or to contact the same piece of metal to prevent sparking.
6. Clamp the red clamp (+) to the positive terminal of the battery. (For a negative grounded system.)\*
7. Clamp the black clamp (-) to an unpainted and unmoving part of the chassis or engine block.
8. If you have connected the clamps of the IP-1850FL backwards, an audio alarm will sound. DO NOT turn your IP-1850FL on. This could cause serious damage. Reverse the connections, and the audio alarm will stop.
9. If no audio alarm is sounded, turn ON the IP-1850FL, and then crank the engine. If the engine does not start within 5 – 8 seconds, wait at least 1 minute before attempting to start vehicle again. (This permits the battery to cool down.)
10. After the engine starts, make sure to turn OFF the power switch. Then disconnect the black clamp (-) and then the red

clamp (+) in that order. Store the clamps on the ears located on the sides of the case.

11. Recharge the IP-1850FL as soon as possible after use.

**\*NOTE:** In the rare case of jump-starting a vehicle that has a positive-grounded vehicle electrical system, connect the NEGATIVE black clamp (-) to the negative terminal (-) of the vehicle battery. Then connect the POSITIVE red clamp (+) to an unpainted and unmoving part of the vehicle chassis or engine block. If you are unsure of the nature of the vehicle's electrical grounding system, check the owner's manual of the vehicle. To disconnect clamps, reverse order.

#### LED INDICATORS

To check the internal battery's charge status, press the red button on the front of the IP-1850FL.

The LED lights will indicate the charge level as follows:

1. A red LED indicates a 50% or less charge and you should immediately recharge.
2. A yellow LED indicates a 50 to 75% charge. The IP-1850FL may be used but should be recharged as soon as possible.
3. A green LED indicates the internal battery is charged.

**CHARGING** of internal battery with built-in charger.

After removing the IP-1850FL from the carton, charge it for a minimum of 8 hours before using even if the green Full Power LED glows.

**NOTE:** The ON/OFF switch does not have to be in the ON position to recharge the internal battery.

1. To charge, plug extension cord into charger plug on the back of the IP-1850FL. (Extension cord not included; must be purchased separately.)
2. Plug the extension cord into 110V AC electrical wall outlet.
3. The red LED will glow indicating charging.
4. The green LED will glow when the battery has reached full charge. This could take up to 72 hours on some charges due to age and condition of the battery. The charger will automatically drop into a float mode and maintain the battery at full charge without damaging the battery. The IP-1850FL can be left plugged into the 110V wall outlet indefinitely to maintain full power.
5. Recharge the IP-1850FL after use and every 3 months to full charge status to extend the battery's life.

#### MULTI-PURPOSE POWER SUPPLY

The IP-1850FL is a power source for all 12 volt power accessories with 12V accessory plug. Make sure the device to be powered is OFF before inserting 12 volt accessory plug into 12 volt DC accessory outlet located on the front of the IP-1850FL. Use the 12 volt accessory outlet for power outages, fishing and camping trips, cell phones, camcorders, computers, etc. Estimate usage time is listed in chart below.)

## 12 VOLT DC POWER SOURCE CHART

| Appliance Type                 | Estimated Wattage | Estimated Time* |
|--------------------------------|-------------------|-----------------|
| Cell Phones                    | 4 Watts           | 30 Hours        |
| Fluorescent Lights             | 4 Watts           | 30 Hours        |
| Radios                         | 9 Watts           | 21 Hours        |
| Depth Finders                  | 9 Watts           | 21 Hours        |
| Fans                           | 9 Watts           | 21 Hours        |
| Camcorders, VCRs               | 15 Watts          | 12 Hours        |
| Electrical Tools               | 24 Watts          | 7 Hours         |
| Electrical Coolers             | 48 Watts          | 3 Hours         |
| Car Vacuum,<br>Air Compressors | 80 Watts          | 1.5 Hours       |

The DC socket has a 30 amp automatic overload protection circuit breaker. If overload occurs, reset the breaker by pushing the breaker button located on the back of the IP-1850FL.

## 110 VOLT AC POWER SOURCE CHART

(Inverter {Not Included} is Necessary)

| Appliance Type  | Estimated Wattage | Estimated Time* |
|---|-------------------|-----------------|
| Spot Lights,<br>Sump Pumps                              | 100 Watts         | 1.5 Hours       |
| Faxes, TVs,<br>Small Power Tools                        | 150 Watts         | 1 Hour          |
| Computers,<br>Printers Medium,<br>Power Tools, Blenders | 200 Watts         | 45 Minutes      |

When the IP-1850FL is used with an inverter, it can operate appliances normally powered by 110V AC. Inverter is not included; must be purchased separately.

**\*NOTE:** Estimated time is conservatively reported. Actual time may vary. Times are based on the IP-1850FL having a full charge. Requires the use of an inverter that is not included. Designed for up to a 300 watt inverter.

### FLEX-LIGHT

To use the flex-light, insert the light's plug into the 12V accessory outlet. The ON/OFF control is on the back of the light.

### LIGHT REPLACEMENT

The bulb used in the IP-1850FL light is a 12 volt, 5 watt halogen bayonet type. Since the bulb needing replacement is not working and the switch may be in the ON position, the lamp circuit could be "live". **Use caution while changing the bulb.**

To replace the bulb, unscrew the cover on the lamp back, remove the old bulb, then replace with a new 12 volt, 5 watt halogen bulb.

Finally screw the cover onto the lamp housing.

### STORAGE

The IP-1850FL can be stored in any position. The clamps are live and will produce arcing or sparking if they come in contact with each other. To prevent accidental arcing, always keep the clamps on the side ears and the ON/OFF switch in the OFF position when not using it to jump start a vehicle.

All batteries are affected by temperature. The ideal storage temperature is at 70 degrees Fahrenheit. Performance varies based on battery temperature conditions.

## LIMITED WARRANTY

Schumacher Electric Corporation warrants your unit to be free from defects in material and workmanship, excepting abuse or misuse, for a period of one year from the date of sale to the original user or consumer purchaser. If your unit fails or malfunctions within the first 30 days of the warranty, we will replace it with a new unit. If your unit malfunctions or fails within the 12 month warranty period because of a defect in material or workmanship, we will repair without charge.

The internal battery, excluding units with swollen batteries or melted battery terminals, carries a 90-day warranty from the date of purchase. Proof of purchase required. All battery replacements will be at the sole discretion of the manufacturer or his designated agents.

This warranty is in lieu of all other express warranties. The duration of any implied warranty, including but not limited to any implied warranty of merchantability or fitness for a particular purpose, made in respect to your unit is limited to the period of the express warranty set forth above.

*For warranty service, return your product, with proof of purchase, to the factory or a designated agent: Schumacher Electric Corporation Warranty Service Department, 1025 E. Thompson Street, PO Box 280, Hoopston, IL 60942. Phone 1-800-621-5485, Customer Service hours: 7 AM to 4:30 PM CST.*

*You will be responsible for all insurance and freight or other transportation charges to the factory or point of repair. We will return your unit freight prepaid if repair is covered under warranty. Your unit should be properly packed to avoid damage in transit, since we will not be responsible for any such damage.*

*In no event shall Schumacher Electric Corporation be liable for consequential or incidental damages. Some states do not allow limitations on the length of the implied warranty or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.*



CONTAINS SEALED NON-SPILLABLE LEAD-ACID BATTERY. MUST BE DISPOSED OF PROPERLY.

WARNING: Possible explosion hazard. Contact with battery acid may cause severe burns and blindness. Keep out of reach of children.



801 Business Center Drive, Mount Prospect, IL 60056-2179

Send Warranty Product Repairs to: Schumacher Electric Corporation

1025 East Thompson, Hoopston, IL 60942-0280

Call Customer Service if you have questions: 1-800-621-5485 (Hours: 7 a.m. – 4:30 p.m. CST)

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