Getting Started

Battery Charger

Mounting

Dimensions in inches

Enclosure rated IP67

Mount vertically for optimal cooling using #8 - 1/4-20 inch or M4 - M6 metric screws

Operating Temp -25C to +70C
- 12V, 6A full spec to +50C
- 12V, 10A and 24V, 5A full spec to +40C

Operation

The charger automatically starts in Boost mode at power-on or after a battery discharge. It remains in Boost mode until the battery is fully charged. The charger then shifts to Eco-float mode to lengthen battery life. Refresh mode runs periodically to insure that the battery remains fully charged. This cycle continues until the next discharge event.

LEDs/Troubleshooting

Green - Battery is charged. Boost cycle complete, charger now in Eco-float.

Yellow Flash - Check battery or load. Boost mode time limit expired indicating excessive load, battery capacity is too large or battery has an internal short.

Red/Red Flash - Battery bad or disconnected. Battery voltage dropped below preset threshold within one hour of boost termination. Verify battery connected. Battery unable to hold charge or has an internal short.

Off - Battery charging not yet complete.

Note - battery status updated every 100 seconds

Green Flash - Battery is charging in either Boost (steady flash LED) or Refresh mode (2x short flash LED)

Green - Maintaining battery in Eco-float mode.

Red/Yellow - Battery is connected backwards. Correct connections and retry.

Yellow - Charger in initial power-on sequence.

Red - No charger output. Verify battery and source voltage are connected.

Green/Yellow - Overvoltage Protection, charger will return to normal operation once externally caused over voltage condition is removed.

Off - AC source not connected. Verify source is connected and has proper voltage and frequency.

Need Help?

CONTACT SENS CUSTOMER SERVICE:
800-742-2326 / 303-678-7500 / service@sens-usa.com
1. **SAVE THESE INSTRUCTIONS** – This guide contains important safety and operating instructions for MicroGenius® LE battery chargers. Conserver ces instructions. Ce manuel contient des instructions importantes concernant la sécurité et le fonctionnement.

2. **Use of an attachment not recommended or sold by the battery charger manufacturer may result in a risk of fire, electric shock, or injury to persons.**

3. **This charger is intended for commercial and industrial use.**

4. **To reduce risk of damage to electric plug and cord, pull by plug rather than cord when disconnecting charger.**

5. **Do not operate charger without damaged cord/plug – replace charger immediately.**

6. **Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; shut off power at the branch circuit protectors and have the unit serviced or replaced by qualified personnel.**

7. **To reduce risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning. Turning off controls will not reduce this risk.**

8. **External connections to charger shall comply with the United States Coast Guard electrical regulations (33CFR183 SUB PART I).**

9. **WARNING – RISK OF EXPLOSIVE GASES**

10. **PERSONAL PRECAUTIONS**

11. **PREPARING BATTERY FOR CHARGE**

12. **CHARGER LOCATION**

13. **GROUNDING AND AC POWER CORD CONNECTION INSTRUCTIONS** – Charger should be grounded to reduce risk of electric shock. Charger is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

14. **DANGER – Never alter AC cord or plug provided – if it will not fit outlet, have proper outlet installed by a qualified electrician. Improper connection can result in a risk of an electric shock.**

**IMPORTANT SAFETY INSTRUCTIONS**

**INSTRUCTIONS IMPORTANTES CONCERNANT LA SÉCURITÉ**

**WARNING – RISK OF EXPLOSIVE GASES**

1. **WORKING IN VICINITY OF A LEAD-ACID BATTERY IS DANGEROUS. STORAGE BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY OPERATION. FOR THIS REASON, IT IS OF UTMOST IMPORTANCE THAT YOU READ THIS DOCUMENT AND FOLLOW THE INSTRUCTIONS EACH TIME YOU USE THE CHARGER.**

   **IL EST DANGEREUX DE TRAVAILLER À PROXIMITÉ D’UNE BATTERIE AU PLOMB. LES BATTERIES PRODUISENT DES GAZ EXPLOSIFS EN SERVICE NORMAL. IL EST AUSSI IMPORTANT DE TOUJOURS RELIRE LES INSTRUCTIONS AVANT D’UTILISER LE CHARGEUR ET DE LES SUIVRE À LA LETTRE.**

2. **To reduce risk of battery explosion, follow these instructions and those published by battery manufacturer and manufacturer of any equipment you intend to use in vicinity of a battery. Review cautionary markings on these products and on engine.**

   **Pour réduire le risque d’explosion, lire ces instructions et celles qui figurent sur la batterie.**

3. **PREPARING BATTERY FOR CHARGE**

4. **To reduce risk of dropping a metal tool onto battery or engine.**

5. **NEVER charge a frozen battery.**

6. **NEVER smoke or allow a spark or flame in vicinity of battery or engine.**

7. **ET AL.**

**For information and service on any SENS product, please contact us at:**

1.866.736.7872 • 303.678.7500 • Fax 303.678.7504 • www.sens-usa.com • info@sens-usa.com

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