



Item no. 2513

5A Solar Charge Controller



User's Manual

©2010 Wagan Corporation. All Rights Reserved
Wagan and wagan.com are trademarks used by Wagan Corp.
Revised June 2010

Thank you for purchasing the 5A Solar Charge Controller by Wagan Tech. With normal care and proper treatment it will provide years of reliable service. Please read all operating instructions carefully before use.

Important Safety Instructions

- **Working in the vicinity of a lead-acid battery is dangerous. Batteries generate explosive gases during normal operation.**
- Wear complete eye and clothing protection when working with lead-acid batteries.
- Make sure that someone is within range of your voice to come to your aid if needed while you work with or are near a lead-acid battery.
- Have plenty of fresh water and soap nearby for use in case battery acid

contacts your eyes, skin or clothing. If this happens, wash immediately with soap and water. Then get medical attention.

- Avoid touching your eyes while working with a battery. Acid particles (corrosion) may get into your eyes. If this occurs, flush eyes immediately with running cold water for at least 10 minutes. Then immediately get medical attention.
- Never charge a frozen battery.
- Remove all personal metal items from your body such as rings, bracelets, necklaces and watches while working with lead-acid batteries. A battery can produce a short circuit current high enough to weld a ring (or the like) to metal, causing a severe burn.
- Take care not to drop any metal tool or metal object onto the battery. This may result in a spark or short circuit across the battery or another electrical device that

may cause an explosion.

- Always operate the charge controller in an open, well-ventilated area.
- Never smoke or allow sparks or flames in the vicinity of the battery. Batteries generate explosive gases.
- Neutralize any acid spills thoroughly with baking soda before attempting to clean up.

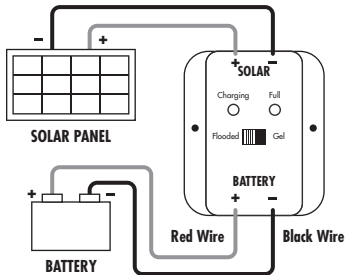
Front Panel Indicators

- | | |
|------------------|---|
| Charging LED: | Yellow LED lights when charging |
| Full LED: | When a full charge is reached, the green LED lights |
| Selector Switch: | Selects Gel or Flooded battery type |

Specifications

Max Solar Panel Array Power	75W
Input Voltage	16.5V~22V
Max Input Voltage	25V
Charging current	5A
Voltage for Gel Battery	14.2V
Voltage for Flooded Battery	14.6V
Over current protection	5A
Operating Temperature	0°~40° C
Storage Temperature	-10°~70° C
Dimensions (mm)	68 × 58 × 20
Weight	46.5g

Connection Diagram



When battery voltage reaches to about 14.6V (14.2 for Gel) the controller stops charging. When the battery voltage drops to about 13.5V the controller begins to charge again.