



Installation, Operation & Application Guide

For further information visit us at www.active-controlsllc.com.



Important Safety Information



- Fully tighten all connections and follow all safety requirements.
- Keep away from children and pets.
- Do not repair or modify.
- For indoor use only
- Please ensure all connections are tight for wired version

Features

- ✓ Starting current reduction (50%) and programable startup power.
- ✓ Two independent starting circuits for better starting capability.
- ✓ Mobile app is Bluetooth-enabled and compatible with iOS and Android devices.
- ✓ Built in EMS and Surge protection per power leg.
- ✓ Waterproof, UV-proof module resists weather extremes.
- ✓ Anti-theft design to easily secure to power source.
- ✓ Diagnostic LED indicators inside of box for technicians.

Application

The ACS50Wx is intended for recreational vehicle (RV), residential, and commercial applications. The ACS50WM is an ActiveStart Marine version for boats. These devices will monitor system health including current, voltage, frequency, and programmable startup power. Dual starting circuits to reduce in-rush current.

SPECIFICATIONS

- **Inputs:** L1, L2, N and Ground
- **Nominal Voltage:** 120-230 VAC, 50-60 Hz
- **Over Voltage Limits:** 132 VAC per leg
- **Under Voltage Limits:** 103 VAC per leg
- **Surge Protection:** 5250 Joules
- **Current:** Maximum nominal= 50 Amps
- **Over Current Limits:**
ACS50xx = 53A
- **Operating Temperature:** -4°F to 176°F (-20°C to 80°C)
- **Storage Temperature:** -40°F to 149°F (-20°C to 65°C)
- **Humidity:** 5-95% Non-condensing.
- **Weight:** 3 Lbs. (1.36kg)
- **Warranty:** One year limited warranty (standard)

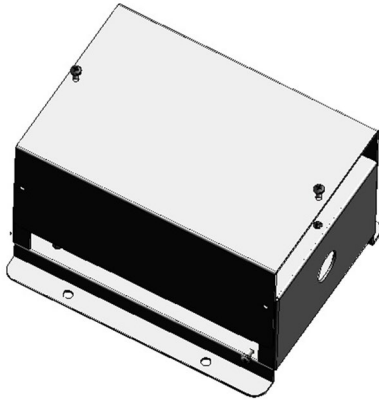
Installation

1. Wire unit into RV or Motorhome power downstream of any transfer switch.
2. Please note the Line In side vs the Line out and wire accordingly. The unit will not operate if line in is wired to the output side.
3. Allow self-diagnostic function to determine if voltage, frequency is correct then the source power is ready to use and outputs turn on.
4. After 45-60 seconds the output will feed power to the RV breaker panel.
5. If the Output shuts off and power to the RV/house/boat is off, that indicates a Power Alert related to Current, Voltage or any other fault that has occurred. The Mobile App will show the cause of the shutdown. The unit will automatically reset and turn on the outputs after a 2-3 minute delay.



Scan to see a full specification, installation, & more on our website

Dimensions



Length= 20"
Width= 6"
Depth= 3.25"

Performance

The ActiveStart is a unique device that is installed in series with the loads. This is quite different from a standard softstart that is wired directly to a motor and only has one function which is to start the motor.

The ActiveStart responds to an inductive load which generates a large spike in current and quickly current limits the device while initiating a softstart of the load. This is done without disturbing other appliances that are currently running on the same power source.

The Graphs below showcase this functionality:

Operation and App

This device has 2 modes of operation that is selectable in the app. The default mode is for it to function as a 230 Vac application and what that means the unit if it has a fault on 1 power leg it will turn off the output on both legs.

The second operating mode is that the unit will function independently when a fault occurs only on either leg. For example: if L1 has a low voltage then only L1 will turn off and L2 will continue to operate.

Please use the QR code to download the appropriate app for this device. Then scan for devices and add this device. Using the QR reader to read the password key on the unit will simplify the process of entering in the key manually as some characters could be difficult to decipher.

Please go to our website for complete app information on the installation and operation of app.

