



## Installation, Operation & Application Guide

For further information visit us at [www.active-controlsllc.com](http://www.active-controlsllc.com).

## Important Safety Information



- Fully Insert all plugs.
- Keep away from children and pets.
- Do not repair or modify.
- For outdoor use only.
- Store indoors when not in use.
- 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 ACS50xx is intended for recreational vehicle (RV), residential, and commercial applications. The ACS50M 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:** 4 Lbs. (1.81kg)
- **Warranty:** One year limited warranty (standard)

## Installation

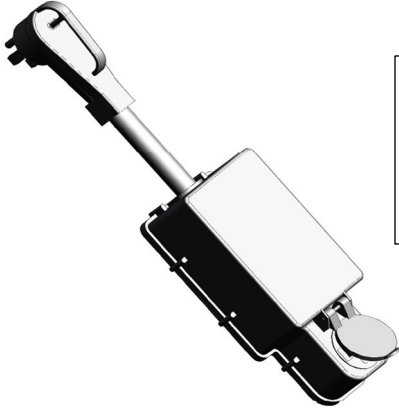
1. Plug unit into your most convenient power pedestal or generator.
2. Allow self-diagnostic function to determine correct polarity. If Input LED is green only, then the source power is ready to use.
3. After 45-60 seconds, the green Output LED will indicate when there is "live" power on marine cables only.
4. Plug the RV, residential, and/or boat power cord into the ActiveStart outlet.

If the green Output LED 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"

## LED INDICATORS

GREEN & RED LIGHT	MEANING
GREEN LIGHT ON ONLY	POWER SOURCE IS CORRECTLY WIRED AND SAFE TO USE.
RED LIGHT ON ONLY	L1/GROUND ARE REVERSED.
GREEN & RED LIGHT ON	GENERATOR POWER NEEDS BONDING PLUG. <b>PEDESTAL POWER IS HOT/NEUTRAL ARE REVERSED OR L2/GND REVERSED</b>

50 Amp Input Plug Indicators



## 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:

