

CS3-SL

Utilizing solar energy, the CS3-SL offers a smart sustainable solution for managing resources and labor costs in one convenient turn-key kit, accessible anywhere, anytime from any internet-connected device. The CS3-SL unit is housed in a flip-top enclosure that includes a Calsense CS3000 irrigation controller housed on the left. The right section of the double-wide houses the solar controller/charger equipment. This includes: batteries, a power inverter, a power monitor and circuit breakers. Pre-assembled and pre-wired for convenience, the CS3-SL offers up to 48 stations, or as a 2-Wire controller, all featuring the CS3-GR-KIT communication option.

The CS3-SL provides robust irrigation management with simple installation, as well as minor lifetime maintenance by maximizing battery charge and health automatically. The controller is mounted at a 25° angle for easy access, viewing, and programming. The self-sustaining efficiency of this solar kit makes it the most environmentally-friendly irrigation controller on the market, which can easily be integrated into your existing Calsense system.



The CS3-SL is a great solution for:

- Sites where infrastructure prevents new wire paths
- Remote locations without hardwired electricity
- Sites seeking to achieve LEED or other sustainable certifications

Calsense CS3000

Models

CS3-8-SL: 8 stations
CS3-16-SL: 16 stations
CS3-24-SL: 24 stations
CS3-32-SL: 32 stations
CS3-40-SL: 40 stations
CS3-48-SL: 48 stations
CS3-2W-SL: 2-Wire
CS3-SL-POLE: 16 foot pole
for mounting sold separately

Physical

Height: 46"
Color: Medium Gray
Base Width: 38"
Controller Width: 26.5"
Depth: 24"
Material: 14 gauge, UL
Listed stainless steel

Communication

CS3-GR-KIT: 4G LTE cellular modem which provides communication with cloud-based Command Center Online web application. Includes GR-STUBBY antenna.

Solar Charger

The solar charger harnesses energy from your solar panel, storing it in the rechargeable batteries. Automatic battery voltage recognition maximizes this energy-harvest, achieving a full charge in the shortest possible time. The battery optimizes its health, extending its life cycle for years of continuous use.

- Continuous power tracking ensures maximum energy harvest even during partial shading conditions
- ECO-mode
- Outstanding conversion efficiency
- Natural convection cooling

Universal Top-of-Pole Mount

Universal Top-of-Pole Mount with brackets and hardware comes with the solar panel included in the model CS3-SL.

Optional Calsense pole:
(model CS3-SL-POLE: 16 foot pole)

Supports a pole diameter of 3.0-4.0 inches (requires a properly anchored schedule 40 pipe)

Solar Panel

Power at STC (P_m): 160W

Dimensions: 57.7" x 26" x 1.97"

Weight: 28.6 lbs

Operating Temperature: -57° C to 67° C
(-72°F to 153°F)

Solar panel withstands up to 100mph wind load but requires use of the Calsense model CS3-SL-POLE adhering to the concrete pad specifications.

Battery Monitor

Utilizing Bluetooth, the Battery Monitor wirelessly communicates between CS3-SL components, simplifying system installation and enhancing performance. Use a smartphone or Bluetooth enabled device to monitor all important data on a single screen.

- Battery voltage, current, power, ampere-hours consumed and state of charge
- Remaining time at the current rate of discharge
- Programmable visual and audible alarm

Dual Lithium Rechargeable Batteries

The CS3-SL includes two 12.8V batteries using high quality 26650 LiFePO4 cells with Protection Circuit Module (PCM).

Voltage

Nominal Voltage: 12.8 V

Maximum voltage: 14.6 V

Minimum Voltage: 8 V

Ambient Temperature

Charge: 0° C to 45° C (32° F to 113° F)

Discharge: -20° C to 35° C (-4° F to 95° F)

Storage: -20° C to 35° C (-4° F to 95° F)

