



## SC30-50K Series

### Smart String Controller

## Product Introduction

AdvanSol SC30-50K series Smart String Controller is primarily used to convert the DC current into the AC current safely and stably, and monitor the safe operation of the entire solar system. The string controller can work with O series micro controller to achieve optimized module-level output and then enable the entire system to perform at full capacity.

In the event of an emergency or overhaul, the string controller can reduce the output voltage of the solar string within a safe voltage range.



The string controller is installed in the same way as the traditional string inverter. It is easy and convenient



The string controller can work with the O series micro controller to realize refined module-level system regulation



The diagram illustrates a solar string system architecture. On the left, a 2x6 grid of solar panels is shown. Each panel is connected to a corresponding 'MRO' (Module-level Rapid Shutdown) component, resulting in a 2x6 grid of MROs. These MROs are connected to a central 'Smart string controller' box. The controller is then connected to a 'Power output' section, represented by two power lines. Below the main diagram, three features are highlighted in separate boxes, each with a checkmark icon:

- ACLOUD Module-level monitoring**: Represented by a cloud icon with an upward arrow.
- RSD Module-level rapid shutdown**: Represented by a switch icon.
- Module-level optimization**: Represented by a puzzle piece icon.