RAPID SHUTDOWN

FACT SHEET



SUNSPEC RAPID SHUTDOWN SPECIFICATION AND CERTIFICATION PROGRAM

MEETING A MARKET MANDATE FOR SOLAR SAFETY

PV module-level power control and safety ("rapid shutdown") is required in 34 states as of January 2020 SunSpec Alliance global leaders have developed an open standard rapid shutdown communication solution

SunSpec has launched a Rapid Shutdown Certification Program



SunSpec Communication Signal for Rapid Shutdown Functional Specification Rapid Shutdown

CERTIFIED

Requirement established by National Electrical Code (NEC) 2017.

Goal to protect firefighters and consumers who need to interact with a PV system.

NEC 2017 is an "inclusive" standard, meaning it applies to all manufacturers and equipment types covered by the standard.

The mandate affects millions of PV panels and all solar inverters.

35 companies worked together to create the solution, each of which identified unencumbered ideas and open technology.

The solution benefits all consumers by increasing the safety of PV systems and lowering installation costs through standardized Plug-and-Play system components.

Products complying to the standard are now available from world-class vendors.

Certification program communicates that system components work well with each other and have been tested to SunSpec requirements.

SunSpec Alliance offers Communication Signal for Rapid Shutdown certification through third party SunSpec Authorized Test Laboratories.

Find the full list of SunSpec Rapid Shutdown certified products at certifications.sunspec.org.

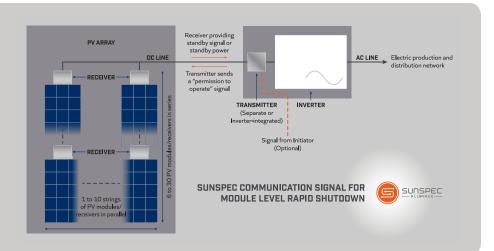
Common term: Rapid Shutdown
NEC code term: PV Hazard Control

SunSpec Alliance • 408 217 9110 • info@sunspec.org • rapidshutdown.sunspec.org

SunSpec Communication Signal for Module Level Rapid Shutdown

A multi-vendor, multi-device communication solution to enable NEC 2017

LOWERS COST, SAVES TIME, INCREASES CONSUMER CHOICE



Market Benefits of SunSpec Rapid Shutdown **Specification and Certification Program**

Improves System Safety

Provides a simple, robust, and reliable solution to comply with NEC 2017 requirements by reducing the voltage at module level to 1V per module.

Reports system health every time the sun comes up or the system is re-activated.

Accelerates Industry Growth

Reduces installation and interconnection costs with standardized, Plugand-Play system components.

Encourages job creation and new product development by increasing demand of DER installations.

Lowest cost solution to a fundamental market requirement.

Instills **Consumer Confidence**

Open standard based on mature technology protects consumer differentiators with competitive pricing, multi-vendor choices, differentiated options and value availability.

Ensures system service and upgrades with choice of vendors and interoperable components.

SunSpec RSD Specification **Contributing Companies & Early Adopters**

ABB

Adesto Technologies

AP Systems

Canadian Solar

Celestica Inc.

Chint Power Systems - North America

Delta Products Corp.

Enphase Energy

ET Solar

Fimer

Fronius International

Ginlong Solis

Hansol Technics Co.

HiQ Solar

Itek Energy

Ingeteam

JA Solar

JMTHY

LERRI Solar Technology Co.

Integrated Solar

Mersen Electrical Power

MidNite Solar

Neo Solar Power

Omron Global

OutBack Power

Phoenix Contact

SMA

Samil Power

Seraphim Solar USA Manufacturing Inc.

Semitech Semiconductor

Silfab Solar

Solartec

ST Micro

Stäubli

Sungrow

SunPower

Sunrun

Sunpreme

Suntech Power Talesun

Tesla

Texas Instruments

ULLIC

Yaskawa Solectria Solar

Yingli Solar

Zerun















