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

2017 Edition for Rapid Shutdown

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 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

Implements SunSpec RSD 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, Plug-and-Play system components.
Encourages job creation and new product development by increasing demand of DER installations.

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
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
UL LLC
Yaskawa Solectria Solar
Yingli Solar
Zerun

Visit rapidshutdown.sunspec.org for upcoming event information

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