



# RAPID SHUTDOWN SYSTEM

RSB-2S-US-10 & RSC-1X-US-10



IMAGE OF RAPID SHUTDOWN CONTROLLER FOR ILLUSTRATIVE PURPOSES ONLY

## Reliable

- Optimal system reliability with hybrid switches for disconnecting
- Automatic self-test upon startup to ensure functionality

## Perfect alignment

- Engineered for Sunny Boy-US and Sunny Boy TL-US inverter lines with multiple MPP tracking channels
- Compatible with Secure Power Supply

## Code compliant

- UL-Certified and compliant with 2014 NEC 690.12 Rapid Shutdown
- No interference with AFCI function of Sunny Boy inverters

## Cost effective

- Incorporated junction box reduces equipment and speeds installation time
- Pre-wired MC4 connectors and snap terminals reduce materials and installation time

## RAPID SHUTDOWN SYSTEM

### Cost-effective system compliance

The SMA Rapid Shutdown System is the most cost-effective way to achieve 2014 NEC 690.12 Rapid Shutdown compliance for systems using Sunny Boy inverters. This DC powered system allows for the use of Secure Power Supply, providing opportunity power to homeowners during daytime grid outages. Hybrid switches and automatic self-test ensure system safety and durability, reducing risk and costs. Each component plays a critical role in a PV system; don't compromise your Sunny Boy's performance with any other rapid shutdown solution.

Technical data	Rapid Shutdown Box
<b>General data</b>	
Maximum input voltage	600 V DC
Minimum input voltage	110 V DC
Number of DC inputs	4 strings, 2 in parallel per channel
DC operating current per channel	20 A DC
Maximum channel short circuit current per channel	36 A DC
Integrated power supply	DC powered by PV array (max. 5W)
Ambient temperature range	-40 °C to +75 °C
Dimensions without pre-wired cables (W x H x D)	542 x 340 x 75 mm / 21.3 x 13.4 x 2.95 in
Weight	3.8 kg / 8.4 lb
DC input	Cable whips with MC4 connectors
Wire size DC outputs	AWG 12 to AWG 6
Wire size control wires	AWG 18 to 16
Wire size grounding	AWG 10 to AWG 6
Enclosure rating	Type 4X
Enclosure finish	Aluminum
Conduit size (home run)	3/4 inch conduit
Conduit size (control wires)	2 x 1/2 inch for daisy chain wiring
Warranty	10 years
Compliance	NEC 2014, article 690.12
Safety listing and certification	UL 1741
Type designation	RSB-2S-US-10

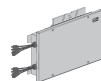
Technical data	Rapid Shutdown Controller
<b>General data</b>	
Status indicator	2 LEDs
Dimensions (W x H x D)	80 x 153 x 104 mm / 3.15 x 6.02 x 4.1 in
Weight	0.3 kg / 0.72 lb
Ambient temperature range	-25 °C to +70 °C
Enclosure rating	Type 4X
Enclosure finish	Polycarbonate
Type designation	RSC-1X-US-10



**First Responder Safety**  
LED indicator lights ensure safe operation for first responders.



**Rapid Shutdown Controller**  
Mounting in close proximity to the inverter is not required.



**Rapid Shutdown Box**  
Slim design fits under PV modules.



**Secure Power Supply (SPS)**  
Rapid Shutdown System ensures SPS functionality by using PV array's DC power.