RAPID SHUTDOWN SYSTEM





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

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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 |
|---|---|
| General data | |
| 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 input 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) | $542 \times 340 \times 75 \text{ mm} / 21.3 \times 13.4 \times 2.95 \text{ in}$ |
| 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 |
|---------------------------|--|
| General data | |
| Status indicator | 2 LEDs |
| Dimensions (W x H x D) | $80 \times 153 \times 104 \text{ mm} / 3.15 \times 6.02 \times 4.1 \text{ in}$ |
| 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 |



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