PRELIMINARY 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 5.0-US/6.0-US and 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 when other rapid shutdown systems would eliminate its functionality. 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

General data

Maximum input voltage Minimum input voltage Number of DC inputs DC operating current per channel Max. channel short circuit current at STC Integrated power supply Ambient temperature range Dimensions without pre-wired cables (W x H x D) Weight DC input Wire size DC outputs Wire size control wires Wire size grounding Enclosure rating Enclosure finish Conduit size (home run) Conduit size (control wires) Warranty Compliance Safety listing and certification

Type designation

Technical data

General data	
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	Туре 4Х
Enclosure finish	Polycarbonate

Type designation



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Rapid Shutdown Box

600 V DC 110 V DC 4 strings, 2 in parallel per channel 20 A DC 28 A DC DC powered by PV array (max. 5W) -40°C to +75°C 542 x 340 x 75.75 mm / 21.3 x 163.4 x 3 in 3.8 kg / 8.4 lb Cable whips with MC4 connectors AWG 12 to AWG 6 AWG 18 to 16 AWG 10 to AWG 6 Type 4X Aluminum 3/4 inch conduit $2 \times 1/2$ inch for daisy chain wiring 10 years NEC 2014, article 690.12 UL 1741

RSB-2S-US-10

Rapid Shutdown Controller

RSC-1X-US-10