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December 2, 2020

Subject: New Compatible Sunspec Device

Dear Authorized Distributors,

The latest version of the SunSpec certified rapid shutdown device from APsmart (RSD-S-PLC) now fulfills SMA's functional compatibility requirements for use with Sunny Boy US (SBx.0-1SP-US-41) and Sunny Tripower CORE1-US (STP xx-US-41) inverters. The RSD-S-PLC device will not be sold by SMA, however will be available through APsmart distribution channels.

Technical details can be found in the attached datasheet. All service and warranty obligations will be the responsibility of APsmart and not SMA.

Please note: The functional compatibility with SMA inverters is only valid for APsmart RSD-S-PLC article numbers 41500x (serial numbers starting with 6051...). Devices with other article numbers have not been tested for functional compatibility with SMA inverters. For more information, go to [www.apsmartglobal.com](http://www.apsmartglobal.com).

Should you have any questions, please email me.

Sincerely,

A handwritten signature in dark ink, appearing to read "Charles C. Smith". The script is fluid and cursive, with the first name "Charles" and last name "Smith" being clearly legible.

Charles C Smith

National Sales Manager – Channel

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## RSD-S-PLC

- Meets NEC 2017 (690.12) requirements
- Executes rapid shutdown of system when Transmitter-PLC signal is absent
- Meets SunSpec requirements

### RSD-S-PLC Technical Data

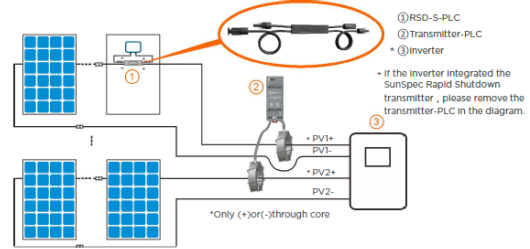
Model	RSD-S-PLC
<b>Input Data (DC)</b>	
Input Operating Voltage Range	9-80V
Maximum Cont. Input Current (Imax)	15A
<b>Output Data (DC)</b>	
Output Operating Voltage Range	9-80V
Maximum System Voltage	1000V/1500V
<b>Mechanical Data</b>	
Operating Ambient Temperature Range	-40 °F to +185 °F (-40 °C to + 85 °C)
Dimensions (without cable&connectors)	5" x 1.2" x 0.6"(129 mm x 30 mm x 16 mm)
Cable Length	Input 250mm/Output 1200mm
Module Connector	MC4 or Customize
Enclosure Rating	Type 6P / IP68
Over Temperature Protection	Yes
<b>Features &amp; Compliance</b>	
Communication	PLC
Safety Compliance	NEC 2017 (690.12); UL1741; CSA C22.2 No. 330-17; IEC/EN62109-1; 2PFG2305
EMC Compliance	FCC Part15; ICES-003; IEC/EN61000-6-1/-2/-3/-4

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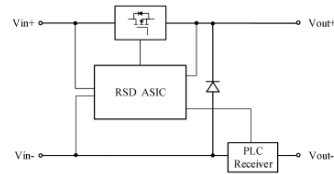


RSD-S-PLC meets SunSpec requirements, maintaining normal function by continually receiving a heart-beat signal from the APsmart Transmitter. The RSD executes rapid system shutdown when Transmitter signal is absent. Users can manually execute rapid shutdown using Transmitter breaker switch.

### RSD-S-PLC Wiring Diagram



### Working Schematic Diagram



### ORDERING INFORMATION

415002	1500V UL/1000V TUV, 1.2m cable, MC4
415001	1000V UL/TUV, 1.2m cable, Customized connector

APsmart

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