



# Raising the bar in innovative DC MLPE solar power systems

# **RSD-D**

- Meets NEC 2017 & 2020 (690.12) requirements
- Executes rapid shutdown of system when Transmitter-PLC signal is absent
- Meets SunSpec requirements
- Dual-input channel

#### RSD-D Technical Data

Model RSD-D-15 RSD-D-20

Input Data (DC)

Input operating Voltage Range 8-80V Per Channel

Maximum Cont. Input Current (Imax) 15A Per Channel 20A Per Channel

**Output Data (DC)** 

Output operating Voltage Range 16-160V

Maximum Cont. Output Current 15A 20A

Maximum System Voltage 1000V/1500V

**Mechanical Data** 

Operating Ambient Temperature Range -40 °F to +167 °F (-40 °C to + 75 °C)

Dimensions (without cable & connectors) 5.5"  $\times$  2"  $\times$  0.8"(140 mm  $\times$  50.6 mm  $\times$  20 mm)

Cable Length Input 500mm/Output 2200mm

Cable Cross Section Size TUV:4mm²/UL:12AWG

Connector MC4 or Customize

Enclosure Rating NEMA Type 6P/IP68

Over temperature protection Yes

Features & Compliance

Communication Compliance PLC

Safety Compliance NEC 2017 & 2020 (690.12); UL1741; CSA C22.2 No. 330-17; IEC/EN62109-1

EMC Compliance FCC Part15; ICES-003

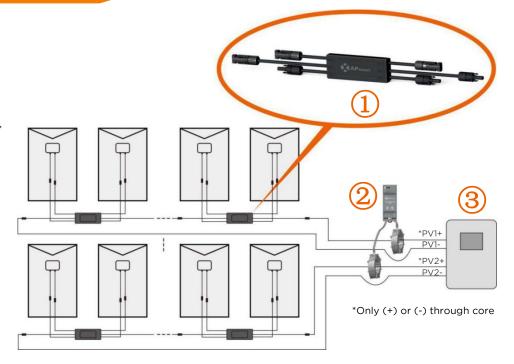
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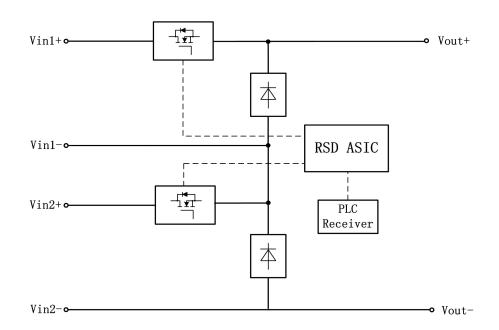
RSD-D meets SunSpec requirements, maintaining normal function by continually receiving a heartbeat signal from the APsmart Transmitter. The RSD-D executes rapid system shutdown when the Transmitter signal is absent. Users can manually execute rapid shutdown using Transmitter breaker switch.

#### **RSD-D Wiring Diagram**

- ① RSD-D
- 2 Transmitter-PLC
- ③ Inverter\*
- \*If the inverter includes an integrated SunSpec-certified Rapid Shutdown Transmitter, remove the external transmitter-PLC in the wiring diagram.



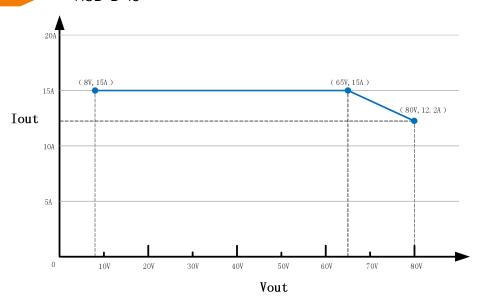
### **Working Schematic Diagram**





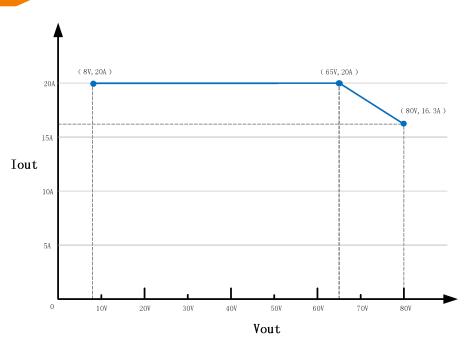
#### **V** Curve

RSD-D-15



## I-V Curve

RSD-D-20



#### ORDERING INFORMATION

426101 1500V UL/1000V TUV, 15A, 2.2m cable, MC4 1500V UL/1000V TUV, 20A, 2.2m cable, MC4 446101

15A, 2.2m cable, Customize connector 4261xx\* 20A, 2.2m cable, Customize connector 4461xx\*











<sup>\*</sup>please see the RSD Series Ordering Information