

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

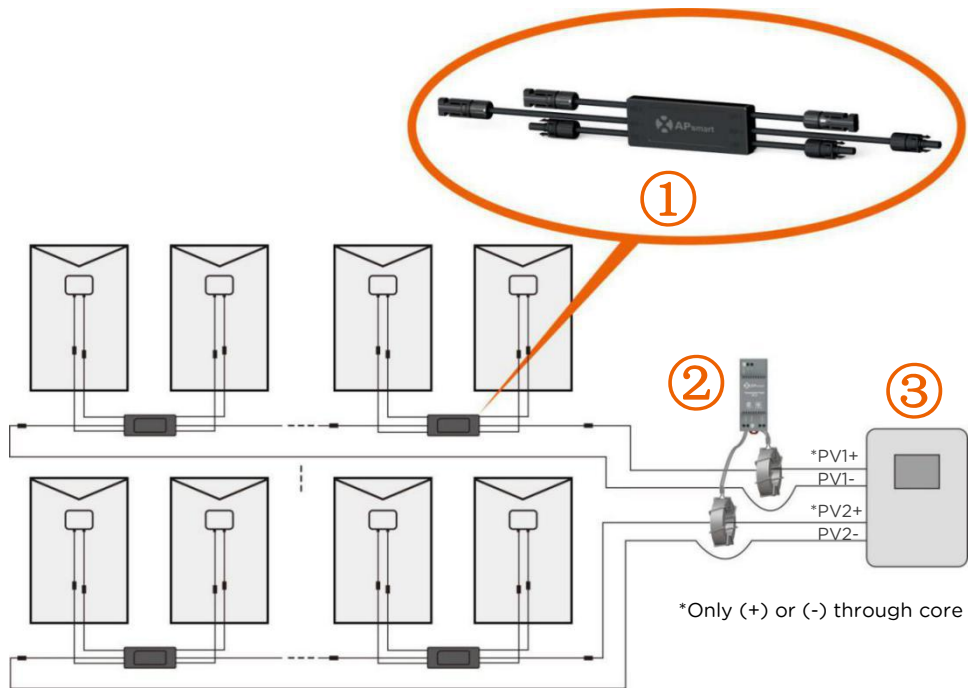
Model	RSD-D
<b>Input Data (DC)</b>	
Input operating Voltage Range	8-80V Per Channel
Maximum Cont. Input Current (Imax)	15A Per Channel
<b>Output Data (DC)</b>	
Output operating Voltage Range	16-160V
Maximum Output Current	15A
Maximum System Voltage	1000V/1500V
<b>Mechanical Data</b>	
Operating Ambient Temperature Range	-40 °F to +167 °F (-40 °C to + 75 °C)
Dimensions (without cable & connectors)	5.5" x 2" x 0.8"(140 mm x 50.6 mm x 20 mm)
Cable Length	Input 500mm/Output 2200mm
Cable Cross Section Size	TUV:4mm <sup>2</sup> /UL:12AWG
Connector	MC4 or Customize
Enclosure Rating	NEMA Type 6P/IP68
Over temperature protection	Yes
<b>Features &amp; Compliance</b>	
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

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.

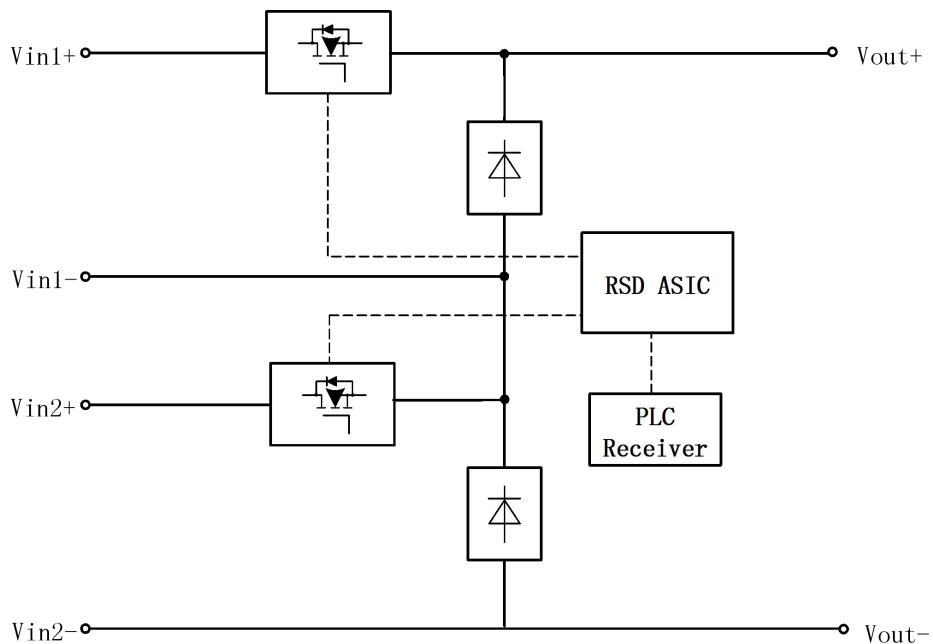
## RSD-D Wiring Diagram

- ① RSD-D
- ② Transmitter-PLC
- ③ Inverter\*

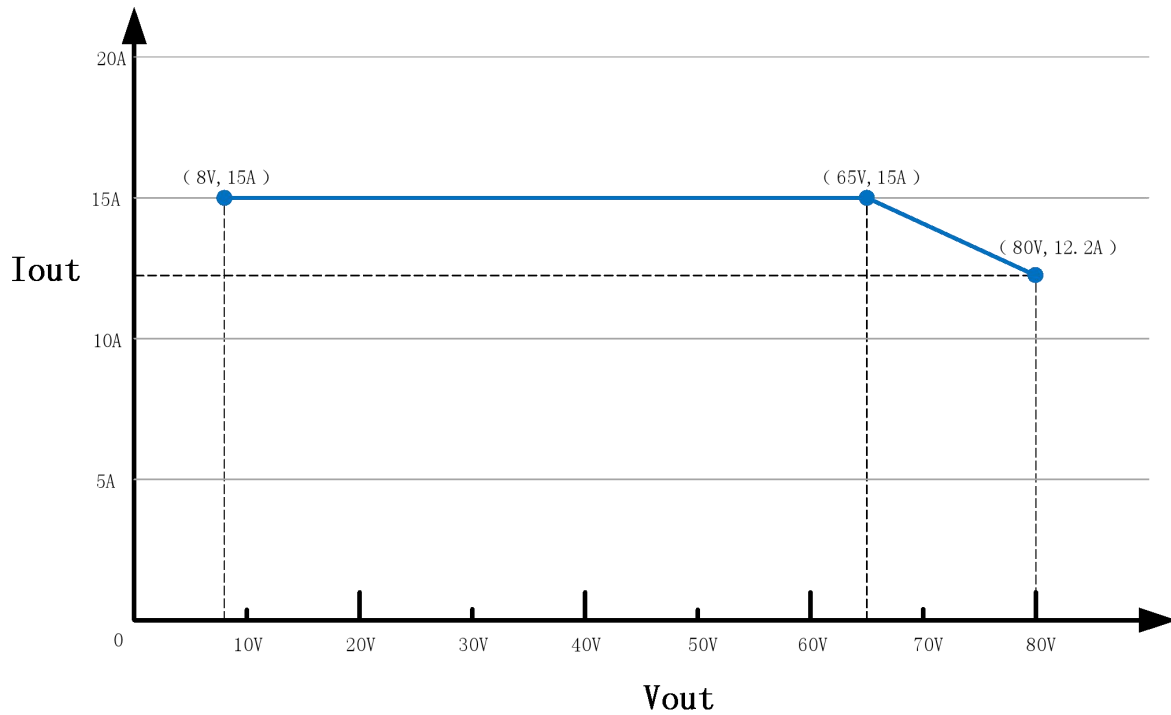
\*If the inverter includes an integrated SunSpec-certified Rapid Shutdown Transmitter, remove the external transmitter-PLC in the wiring diagram.



## Working Schematic Diagram



## I-V Curve



## ORDERING INFORMATION

412003	1500V UL/1000V TUV, 2.2m cable, MC4
412004	2.2m cable, Customized connector