GOODWE

RSD Receiver

The Rapid Shutdown (RSD) Receiver from GoodWe is a key component of the RSD 2.0 solution for PV systems, can be connected with a single module. Functioning as a module-level rapid shutdown device, it enhances fire safety for solar rooftops and buildings. The Receiver ensures the normal operation of modules by consistently receiving a PLC keep-alive signal from a transmitter integrated into GoodWe's inverters or an external transmitter. During emergencies, the module-level rapid shutdown is activated when the transmitter loses power and the signal becomes absent. In addition, when the external RSD initiator is pressed, the modules can also be shut down.

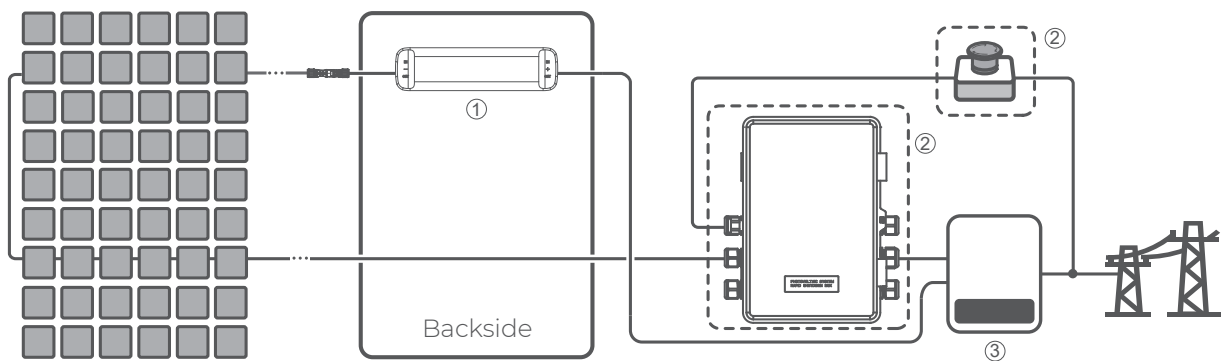- Plug & Play for easy installation
- Supports PLC communication
- Integrated SoC for high reliability
- Meets NEC 2017/2020 requirements and SunSpec certified

Solution Diagram

Backside

① RSD Receiver - on the backside of modules
② External Transmitter and Initiator - An external transmitter and an external initiator should be added if the inverter does not include an integrated transmitter
③ Inverter

Receiver

Technical Data	GR-B1F-20
Max. Number of Shutdown Moudule	1
Operating Voltage Range (V)	8 ~ 80 Per channel
Rated Input Current (A)	22
Mode of Communication	PLC
Operating Temperature Range (°C / °F)	-40 ~ +85°C (-40 ~ +185°F)
Ingress Protection Rating	IP68 / UL Type 6P
Maximum System Voltage (V)	1500
Security Certification	NEC 2017 & 2020 & 2023 (690.12); UL1741; CSA C22.2 No. 330; IEC / EN62109-1
EMC Certification	FCC Part15; ICES-003; IEC / EN61000-6-1 / -2 / -3 / -4
Whether the SunSpec Protocol is Supported	Yes
Dimension (W × H × D mm / in)	140 × 37 × 23 mm (5.51 × 1.46 × 0.91 in)
Cable Length (m / in)	① In: 0.2m, Out: 0.8m (In: 7.87 in, Out: 31.50 in) (Integrated Junction Box) ② In: 1.2m, Out: 0.8m (In: 47.24 in, Out: 31.50 in) (Triad Junction Box) or Customize
Connector	MC4 or Customize

Waterproof Box-Type PACK with RSD2.0 Transmitter

Technical Data	GTP-F2L-20
Main Electrical Data	
Power Supply Input Voltage (Vac)	100 ~ 240
Transmitter Input Voltage (Vdc)	12
Transmitter Input Current (DC) (A)	0.8
Communication	SunSpec PLC
Core Data	
Number of Core	150A Core × 2
Max. Current (A)	150 × 2
Max. System Voltage (Vdc)	1500
Core Line Length (mm / in)	150 mm (5.91 in)
Internal Dimensions / Outside Dimensions (mm / in)	30 / 60 mm (1.18 / 2.36 in)
Max Number of Strings[*1]	30 (Max. 15 Per Core)
Environmental	
Operating Temperature (°C / °F)	-40 ~ +60°C (-40 ~ 140°F)
Enclosure Environmental Rating	IP65 / UL Type 4
Mechanical	
Dimensions (W × H × D mm / in)	253 × 328 × 179 mm (9.96 × 12.91 × 7.05 in)
Mounting Type	Wall Mounted
Features & Compliance	
Safety Compliance	NEC 2017 & 2020 (690.12); UL1741; CSA C22.2 No. 330-17
EMC Compliance	FCC Part 15B, ICES-003, IEC / EN61000-6-1 / -2 / -3 / -4

*1: According to the cable diameter φ5.9mm, if cable diameter is more than 5.9mm, the number of strings per core will be reduced. Care should also be taken not to exceed the allowable current.
*: Please visit GoodWe website for the latest certificates.