

## 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 two modules. 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

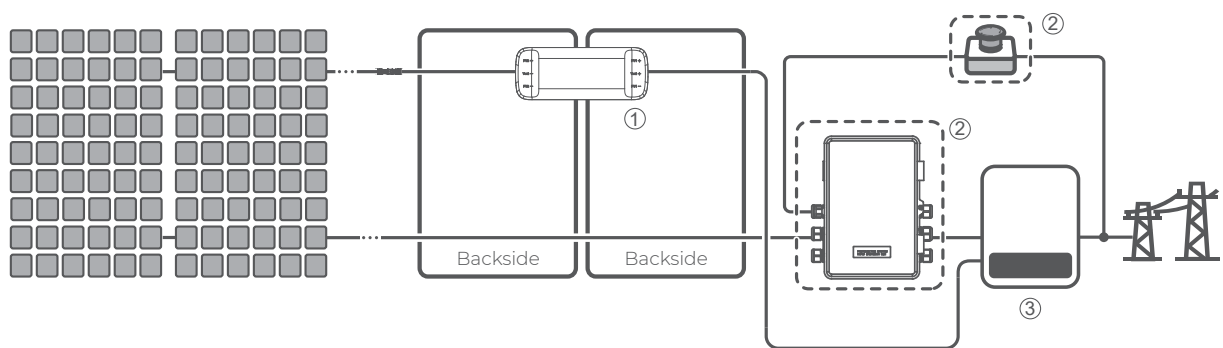


Integrated SoC for high reliability



Meets NEC 2017/2020 requirements and SunSpec certified

### Solution Diagram



- 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-B2F-20
Max. Number of Shutdown Module	2
Operating Voltage Range (V)	8 ~ 80 Per channel
Rated Input Current (A)	22
Max. Voltage of each PV Module after Shutdown (V)	1.3
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
SunSpec Protocol	Support
Dimension (W x H x D mm / in)	132 x 52 x 23 mm (5.20 x 2.05 x 0.91 in)
Cable Length (m / in)	① In: 0.2m, Out: 1.4m (In: 7.87 in, Out: 55.12 in) (Integrated Junction Box) ② In: 1.2m, Out: 1.3m (In: 47.24 in, Out: 51.18 in) (Triad Junction Box) or Customize
Connector	MC4 or Customize

## Waterproof Box-Type PACK with RSD2.0 Transmitter

Technical Data	GTP-F2M-20
<b>Main Electrical Data</b>	
Power Supply Input Voltage (Vac)	200 ~ 480
Max. Power Supply Input Current (A)	0.12
Nominal Frequency (Hz)	50 / 60Hz
Transmitter Input Voltage (Vdc)	12
Transmitter Input Current (DC) (A)	0.8
Communication	SunSpec PLC
Overvoltage Category	AC III
<b>Core Data</b>	
Number of Core	150A Core x 2
Max. Current (A)	150 x 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 <sup>*1</sup>	30 (Max. 15 Per Core)
<b>Environmental</b>	
Operating Temperature (°C / °F)	-40 ~ +60°C (-40 ~ 140°F)
Relative Humidity	0 ~ 100%
Max. Operating Altitude (m)	3000
Enclosure Environmental Rating	IP65 / UL Type 4
<b>Mechanical</b>	
Dimensions (W x H x D mm / in)	253 x 328 x 179 mm (9.96 x 12.91 x 7.05 in)
Weight (kg)	2.8
Mounting Type	Wall Mounted
Pollution Degree	III
<b>Features &amp; Compliance</b>	
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  $\phi 5.9\text{mm}$ , 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.