

RS485 Wireless Bridge Compatibility List

The RS485 Bridge kit is offered in two variants. Both models have an effective range of **100 metres** with the standard antennas, and **350 metres** with the upgraded antennas (line-of-sight, no obstructions, ideal conditions).

Any unlisted inverter model has not been tested for compatibility. The bridges may be compatible with other RS485 devices, but no assurance of operation can be given without prior testing.

The listed compatibilities are for the inverter-to-smart-meter connection. Inverters may use entirely different protocols for inverter-to-inverter or inverter-to-data-manager communication.



Inverter Model	USR "Standard" Bridge	IPW "Fast" Bridge
Alpha ESS	X	✓ ⁶
Deye	X	✓
FoxESS	X	✓ ⁶
Fronius SNAP, Tauro	✓ ³	✓ ⁵
Fronius Verto, Gen24	X	✓ ⁵
GoodWe	X	✓ ⁷
Growatt	✓ ³	✓
Huawei	X	✓
NeoVolt	X	? ²
SAJ	✓ ³	✓
SigEnergy	X	✓ ⁵
SoFar	X	✓
SolarEdge	X	✓ ⁴
Solax	✓ ^{1,3}	✓ ¹
Solis	✓ ³	✓
Sungrow Commercial & Logger1000	✓ ³	✓
Sungrow Residential & Hybrids	X	✓
Tesla Powerwall 3	X	X
Please see footnotes overleaf.		



Notes:	
1	Communication settings vary across the manufacturer's range. Please include the exact model within your order.
2	Compatibility testing is ongoing. Please check back at a later date.
3	Hybrid inverters almost always require the Fast Bridge units. This is due to the increased rate that the smart meter is polled.
4	Solar Edge Inverters do not use the default settings. The bridges must be separately programmed with correct settings to be compatible.
5	The wireless bridges can be used to replace the inverter-to-smart-meter or gateway-to-smart-meter connections. They can't be used to connect the inverters to the gateway, or inverters to each other, due to a manufacturer-specific communication protocol in use.
6	Confirmed on some Alpha ESS/FoxESS unknown models.
7	Confirmed on Goodwe, there is different wiring among different models so please check the manuals carefully for the meter connection RS485 (if it is an RJ45 then use the correct cores aligning with the pins in manual). Note: Goodwe ESA appears to be incompatible. Testing ongoing.