

# TX 12K-A

## PLC RSS Transmitter

- Provides the “heartbeat signal” for RSD
- 2017 NEC 690.12 and 2020 NEC 690.12 Rapid Shutdown Certified.
- SunSpec Rapid Shutdown Certified
- No need to add cores for PLC communication

## PLC RSS Transmitter Datasheet

### RSD PLC Transmitter with PV Module-Level Monitoring

Sol-Ark TX 12K-A transmitters are part of the Rapid Shutdown Live, they are located inside Sol-Ark 12kW inverters.

Provide the permission-to-operate powerline communication (PLC) signal when paired with Sol-Ark O900-80V or any other SunSpec RSD Certified module-level power electronic devices to provide rapid shutdown system compliance as per 2017 & 2020 NEC 690.12 specifications.

The TX 12K-A Transmitters can be installed in existing Sol-Ark 12K previously commissioned.

No need to install cores for PLC communication, TX 12K-A has the transmitter built-in on the MPPT board of the Sol-Ark 12K.

### Quick Specs

Model	TX 12K-A
Power Supply	On board – 48VDC (Includes power cable)
Dimensions (W x L)	110 mm x 214 mm
Max Number of Strings	4
Number of MPPTs	2
Max Power Consumption	8W

Made for: [Sol-Ark 12K-2P-N](#)



## TX 12K-A Technical Data



**MODEL**

**TX 12K-A**

**INPUT DATA (DC)**

On-board Power Supply Input Voltage	48VDC**
On-board Power Supply Input Current	0.5A
Maximum PV System Voltage	500VDC
Number of PV String Inputs	4
Maximum RSD Devices in series per string	30 (subject to NEC 690.12)

**MECHANICAL DATA**

Dimensions	110 mm x 214 mm
Weight	316g
PV String Connection	WAGO Terminal block 221-613 10WG

**ENVIRONMENTAL**

Operating Ambient Temperature Range	-13°F to + 131°F (-25°C to + 55°C)
Altitude	4000m
Cooling Method	Natural Convection (withing Sol-Ark invertir wire box)
Installation Method	Field replaceable

**FEATURES**

Communication Signal	Power Line Communication ( PLC )
Warranty	10 years

**STANDARDS COMPLIANCE**

Photovoltaic Rapid Shutdown System	NEC 2017 (690.12), NEC 2020 (690.12)
Safety Compliance	UL 1741, CSA 22.2 No. 107.1
EMC Compliance	FCC Part 15 Class B; IEC 61000-6-2; IEC 61000-6-3
Others	SunSpec RSD Certified

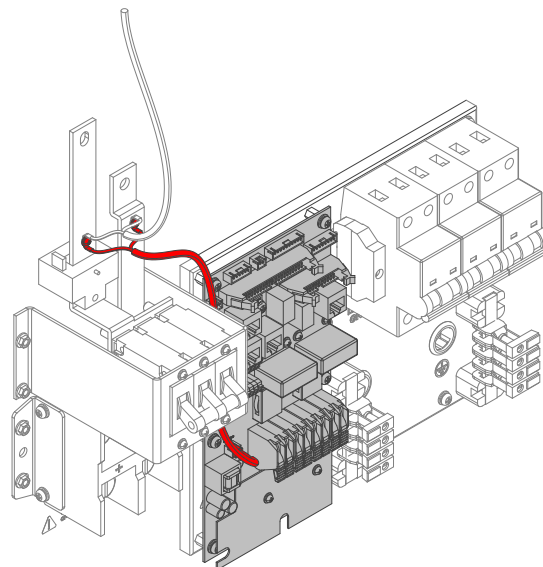
\*\* It is required to have a **battery based system** to use the On-board Power Supply.

## Easy integration of TX 12K-A with the inverter

Transmitter TX 12K-A can be powered from:

- On-board Power Supply (**Battery required**, see TX 12K-A Quick Installation Guide for more details).
- External 48VDC power supply (for grid-tied)

**TX 12K-A installed inside a Sol-Ark 12K-2P-N**



## Ordering Information

**For sales info:**

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It pairs with:

- Sol-Ark **O900-80V**

