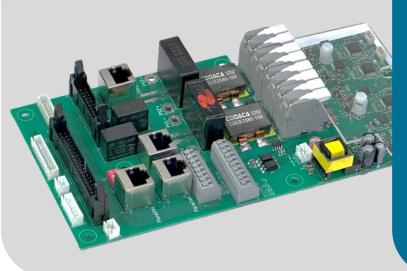
Rapid Shutdown Line





TX I2K-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

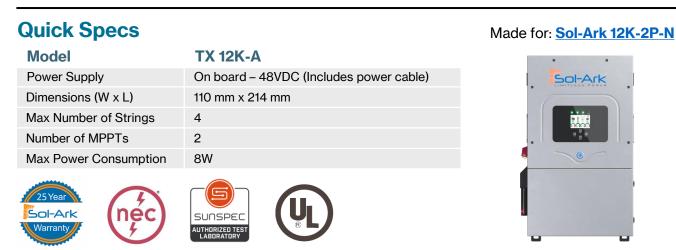
RSD PLC Transmitter with PV Module-Level Monitoring

Sol-Ark TX 12K-A transmitters are part of the Rapid Shutdown Line, they are located inside Sol-Ark 12K-2P-N inverters.

Provides 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 Power Line Communication (PLC), TX 12K-A has the transmitter built into the MPPT board of the Sol-Ark 12K.



SPEC SHEET



TX 12K-A Technical Data

MODEL	TX 12K-A	
INPUT DATA (DC)		Factor and
On-board Power Supply Input Voltage	48VDC**	att as the
On-board Power Supply Input Current	0.5A	1644 523 () 164555 () 1777 5777 5
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 (within Sol-Ark inverte	er 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)

Ordering Information

For sales info:

sales@sol-ark.com

For technical info:

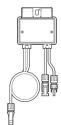
support@sol-ark.com

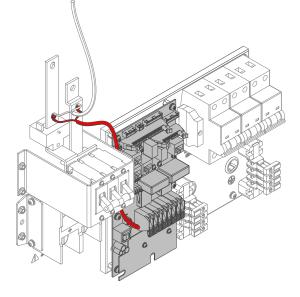
Contact us:

(972) 575-8875

It pairs with:

Sol-Ark 0900-80V





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

Installation using on-board power supply from battery bank