



# TECHNICAL BULLETIN

**35TX/PVP35kW, 50TX/PVP50kW, 75TX/PVP75kW, 100TX/PVP100kW,  
250TX/PVP250kW, 260TX/PVP260kW, 500TX/PVP500kW**

**May 19, 2021**

## Preventative Maintenance Policy

### REVISION HISTORY

Rev	Description	Date
A	Initial Release	May 19, 2021

### PURPOSE

The purpose of this document is to provide guidance to ensure preventative maintenance of PVPowered/AETX inverters has been performed.

## TX INVERTER PREVENTATIVE MAINTENANCE CHECKLIST

Item #	Check or Procedure	Maintenance Cycle
General inspection and cleaning		
1	Record general site conditions. Note specific area environmental risk factors including moisture, rural or urban particles & contaminants, possible corrosion factors.	Annually
2	Record inverter performance data from inverter display. Make notations for critical performance parameters such as power, voltage, current, temperature, faults, and others.	Annually
3	Record environmental conditions. Include pertinent weather factors such as temperature, precipitation, humidity, and wind.	Annually
4	Remove dirt and debris from underneath the inverter or sooner as needed. Remove debris which has collected on top of inverter or near seal areas.	Annually
5	Inspect and repair damage to exterior metal surface and paint by removing corrosion and protecting against corrosive contaminants. Ensure moisture ingress integrity of the inverter.	Annually
6	Inspect and clean interior of inverter. Use special electrostatic discharge (ESD) vacuum and observe ESD practices.	Annually
7	Clean cabinet air filters every year. Certain harsh pollution environments may require cleaning more often than annually.	Annually
8	Inspect and replace seals if necessary. Preserve intrusion protection for the inverter by removal and replacement of worn, moldy, or otherwise damaged seals.	Annually

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9	Confirm the presence of product documentation.	Annually
Connections and wiring		
10	Complete visual and mechanical inspection of electrical connections and wiring. Contact Bold Inverter Support (boldrenewables.com) for potential troublesome connections including torque values and measurement process.	Annually
11	Complete thermal scan of inverter connections, wiring, and electronics. Keep thermal scans for record keeping purposes. If regions of the inverter appear to have potential troublesome loose bolted joints or otherwise problematic connections creating hot spots, contact Bold Inverter Support (boldrenewables.com).	Annually
12	Complete the preventative maintenance report including documentation and recommendations. PM report may be required to support potential warranty claims.	Annually
Replace		
13	Replace card cage air filters	Annually
14	Replace cabinet air filters. Some environmental conditions may degrade filters requiring replacement more often than every 2 years.	Every 2 years or sooner based on environmental conditions
15	Replace battery in communications interface PCB.	When a Real Time Clock error occurs in Modbus status register 42005
16	Replace AC transient voltage surge suppression system whenever there is evidence through a fault warning or visible inspection that a trip has occurred.	When red indicator visible or evidence of fault warning
17	Replace DC transient voltage surge suppression system whenever there is evidence through a fault warning or visible inspection that a trip has occurred.	When red indicator visible or evidence of fault warning
18	Replace door seals. Inspect annually and replace if evidence of wear.	Every 5 years or sooner if necessary
19	Inspect auxiliary power supplies annually and replace even if one is faulty.	When aux supply if found to be faulty
20	Replace fans/blowers.	Every 10 years

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