

Maintenance Schedule

PVS800-57 Central Inverter



ABB Oy, Solar

Recommended maintenance intervals and component replacements are based on specified operational and environmental conditions. ABB recommends annual inverter inspections to ensure the highest reliability and optimum performance. More detailed maintenance information can be found in maintenance instructions, product manuals and on the internet.

www.abb.com/solarinverters

NOTE! Long term operation near the maximum specified ratings or environmental conditions may require shorter maintenance intervals for certain components. Check the device specific technical specifications in the relevant hardware manual and consult your local ABB Service for maintenance recommendations.

Legend

- I Inspection** (visual inspection and maintenance action if needed)
- P Performance** of on/off-site work (commissioning, tests, measurements or other work)
- R Replacement**

Recommended actions by the user	Annually
Connections and environment	
Environment check	I
Cabinet door filters IP54	R
Spare parts	
Spare parts	I
DC circuit capacitors reforming, spare modules and spare capacitors	P
Inspections by user	
Air inlet and outlet meshes	I
Inspection of dustiness, corrosion and temperature inside the cabinet. Cleaning if needed.	I

Cooling	Years from start-up																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Cooling																					
Main cooling fan inverter unit						R						R						R			
Cooling fan of LCL-filter unit						R						R						R			
Cabinet cooling fan (roof)						R						R						R			
Cabinet cooling fan (door)						R						R						R			
Years from start-up																					
Aging																					
Years from start-up																					
Inverter unit																					
DC circuit electrolytic capacitors + discharging resistors *)																					R
Main circuit interface board (AINT)*)													R								
Flat ribbon cables													R								

	Years from start-up																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Control																					
Memory backup-battery in the Data Logger unit (APBU)						R						R						R			
24V DC buffer **)									R			R						R			
Power supplies												R									

	Years from start-up																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Connections and environment																					
Cabinet door filters	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Checking of power connections of inverter module. Cleaning if needed.***)			I			I			I			I			I			I			I
Tightness and cleanliness of main circuit terminals			I			I			I			I			I			I			I
Heat sink cleaning***)			I			I			I			I			I			I			I

*) Estimated maintenance interval in ideal conditions: ambient temperature between 0...40° C (104 °F), indoor conditioned (IEC62109), and no cyclic heavy load.

**) If operation temperature is continuously below 40° C , replacement after 12 years from the start-up. If operation temperature is continuously above 40° C, replacement after 9 years and after 18 years from the start-up. Contact ABB for replacement.

***) Always when inverter module is replaced, check the cleanliness and condition of power connections and heat sink.

Note. The schedule is based on the solar power production operations. Using the reactive power compensation option decreases the maintenance intervals. See hardware manual.

Note. Recommended maintenance intervals and component replacement are based on specified operational and environmental conditions. ABB recommends annual inverter inspections to ensure the highest reliability and optimum performance. More detailed maintenance information can be found in maintenance instructions, product manuals and on the internet page in the address:

www.abb.com/solarinverters