

Lifecycle checklist


Enhance the reliability and performance of your UPS with preventive maintenance

Like an automobile, all UPS products require preventive maintenance (PM) to ensure optimal performance and reliability. During a PM visit, Eaton technicians inspect, test, calibrate, update and clean components. A written report is provided detailing the results of the inspection and specific recommendations are made for remedial actions, proactive replacements and upgrades. With more than 40 years of experience servicing industry-leading UPSs, Eaton can help you maintain the reliable performance of your UPS resulting in a higher return on your investment.

The following chart shows the theoretical life of a typical UPS and the parts requiring annual inspection. Proactive full replacement is recommended for consumable parts like batteries, capacitors and fans which degrade over time with use. Please note that variables such as input power, temperature and environmental factors, will affect the life of UPS and battery systems differently. During the PM visit your customer service engineer will advise you on any replacements or upgrades needed.

Recommended preventive maintenance schedule for 10 kVA+ UPSs (varies by model)

	Year																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Preventive maintenance (PM) visits																				
UPS PM	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Battery PM	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Performance Testing (Load Bank, Infrared Scan, PQ Meter)			◆			◆			◆			◆			◆			◆		
PDU/RPP/Static Switch PM			◆			◆			◆			◆			◆			◆		
System Components (Inspect, test, calibrate, update, clean, and recommend remedial actions as necessary)																				
Integrated System Bypass Module (ISBM) Interface Board	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Uninterruptible Power Module (UPM) Interface Board	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Integrated System Bypass Module (ISBM) Control Board	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Uninterruptible Power Module (UPM) Control Board	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Static Switch Board	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Power Module	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Integrated System Bypass Module (ISBM) Power Supply Board	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Uninterruptible Power Module (UPM) Power Supply Board	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Mini Communication Server Board (CSB)	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Display Assembly	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Firmware ¹	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Field Service Bulletins ²	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Consumable Parts (Inspect, test, calibrate, clean, update, and recommend remedial actions as necessary. Proactive full replacement schedule is listed in RED)³																				
Batteries (Valve Regulated Lead Acid) ⁴	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Batteries (Flooded / Wet Cell) ⁴	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Capacitors (DC Electrolytic) 9330, 9355, 93E, 9390, 9395, 9395 High Performance ⁵	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Capacitors (DC Electrolytic) 93PM ⁵	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Capacitors (DC Electrolytic) 9315	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Capacitors (AC and DC Oil Filled) 9395 High Performance ⁵	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Capacitors (DC Oil Filled) 9330, 9390, 9395 ⁵	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Capacitors (AC Oil Filled) 9315, 9330, 9390, 9395 ⁵	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fans ⁵	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Air Filters ⁵	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆



- Plan** – Power infrastructure assessment, design assistance, product customization
- Install** – Factory witness testing, assembly, startup, electrical installation, load bank testing
- Maintain** – Service agreements, preventive maintenance, parts & labor coverage, response (2, 4, or 8 hour) (7x24 or 5x8), firmware updates, infrared (IR) scanning, spare parts kits, power quality (PQ) metering
- Monitor** – PredictPulse™ remote monitoring, Cellwatch remote monitoring, Intelligent Power Manager software installation
- Update** – Proactive battery, capacitor, and fan replacements, ESS/VMMS upgrades, kVA upgrades
- Retire** – EOSL notification, de-installation and removal, fair market value recovery, environmentally responsible recycling

¹ Firmware updates are performed as necessary with customer approval. Parts if required are included at no charge for customers with service agreements with full parts coverage, otherwise billable.
² Field Service Bulletins are evaluated for potential updates. Parts if required are included at no charge for customers with service agreements with full parts coverage, otherwise billable.
³ Proactive full replacements of batteries, capacitors and fans are not covered under UPS or battery PMs, nor under standard Eaton service agreements, but can be ordered as a separate service.
⁴ Eaton recommends full replacement of sealed batteries between 3–5 years of age and flooded batteries between 12–15 years of age.
⁵ Individual parts are replaced as applicable and necessary during PM visits. Parts if required are included at no charge under service agreements with full parts coverage, otherwise billable.