

Eaton 93T 50–60 kW UPS



Reliable, simplistic, flexible

The Eaton 93T UPS combines superior performance in a space-saving easy-to-install-and-operate design. The systems are available with a variety of options cabinets, ensuring you can meet your project requirements. The 7-inch color touchscreen and available communication options give you system access locally or remotely, across the globe.

- Maximize floor space with the compact footprint and matching optional maintenance bypass with Kirk® key option
- Firmware scalability allows future kW upgrade; internal battery with 7 minutes at 60 kW helps keep a small footprint
- Reduce power and cooling OPEX with three-level inverter energy efficiency:
 - Up to 98% efficiency with Energy Saver System (ESS)
 - Up to 93.5% efficiency in double-conversion mode

Easy deployment

- Top cable wiring with factory-provided interconnects between cabinets
- Modular power module design ensures lowest mean time to repair (MTTR) if there ever is an issue

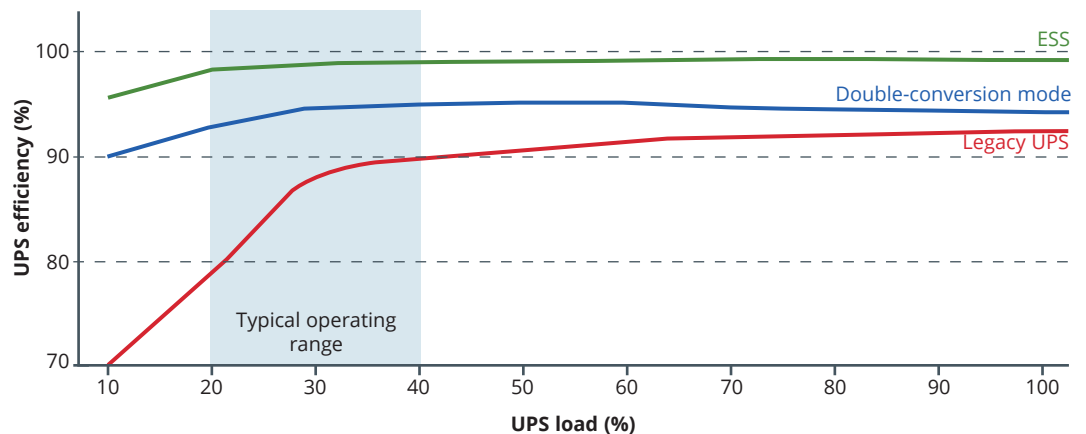
Easy to maintain and manage

- Easy-to-read system logs covering outages and any other event, includes notices on unit preventive maintenance needs
- Friendly graphical 7-inch LCD touchscreen interface
- View system status from a distance with the blue/yellow/red LED light bars

Advanced IT integration

- Supports optional communication cards that allow remote access via the HTTP(S), SNMP, Modbus® TCP/IP, Modbus RTU and BACnet/IP protocols
- Manage your power devices in your physical or virtual environment with Eaton's Brightlayer™ Software suite
- Increase uptime through 24x7 remote monitoring and reporting capabilities using Eaton's PredictPulse™ service that alerts technicians during critical events and results in faster resolutions when a problem is detected; learn more at Eaton.com/PredictPulse

Eaton 93T efficiency
in double-conversion
and ESS



Powering Business Worldwide

The 93T accessory cabinet designs allow installations on either side of the UPS, giving you flexibility in floor space usage.

The functional core of the 93T UPS

A Top cable entry

Top cable entry is standard; cable entry is also available at the rear or on the optional maintenance bypass cabinet

B Communications and connectivity

- Built-in device and host USB
- Nine alarm inputs and dedicated EPO
- Alarm relay output
- Two communication slots

C 7-Inch color touchscreen LCD interface

D Slide out power modules (20 kW)

- Provide independent control and power
- Static switch internal to power module

E Internal battery DC disconnect

F Internal batteries

G Removable air filter

H Status indicator LEDs

73"H



24"W

Open front view of the unit

Front view

Eaton 93T UPS technical specifications

Power modules for 60 kW frame

| | |
|---------------------|-----------------|
| Power offering (kW) | 50 kW and 60 kW |
|---------------------|-----------------|

General characteristics

| | |
|--------------------------------------|------------------|
| Efficiency in ESS | Up to 98% |
| Efficiency in double-conversion mode | Up to 93.5% |
| Parallel capability | Four distributed |

Input characteristics

| | |
|--------------------------|--|
| Voltage | 208 V or 220 V, three-phase, four-wire |
| Voltage range | ±15% at 208 V, +10% / -15% at 220 V |
| Frequency range | 50/60 Hz |
| Power factor | >0.99 |
| Input current distortion | ≤3.5% at 100% load capacity |

Battery

| | |
|--------------------|--|
| Battery voltage | 216 V (±108 V) |
| Charging method | Eaton Advanced Battery Management (ABM®) or float technology |
| Internal batteries | 6 to 10 strings available |

Output

| | |
|-------------------------|--|
| Voltage | 208 V or 220 V, three-phase, three-wire or four-wire |
| Frequency range | 50/60 Hz |
| Regulation | ±1% steady-state |
| Voltage THD | <1.6% (100% linear load); <5% (nonlinear load) |
| Load power factor range | Unity with the ability to support 0.8 leading to 0.8 lagging without de-rating |

Certification

| | |
|--------|-------------------------------|
| Safety | UL® 1778, cULus |
| EMC | FCC Part 15 subpart B class A |
| Surge | IEC 61000-4-5 |

Optional accessories

- Matching maintenance bypass cabinet with Kirk keys or SKRU
- Matching power distribution cabinet
- Matching extended runtime battery cabinet
- Matching transformer cabinets (600 V, 480 V, 208 V)

Due to continued improvements, specifications are subject to change.

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Printed in USA
Publication No. BR153255EN / Z31606
May 2026

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