# Catalog
# UPS

2025

AEC

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# UPS Online | Series FERRUS RT

## Power capacity: 1-3 kVA

FERRUS RT single-phase UPS are AEC's double conversion online UPS Series and comes in a Rack 19" format with powers starting from 1kVA up to 3kVA.
The UPS FERRUS RT series adopts the most innovative IGBT technologies with three level, ensuring **efficiency up to 94.5%** and a **unitary output power factor.**

The UPS are available in models with internal batteries or combined with external battery cabinets for longer runtimes
FERRUS RT UPS are single phase 110/120V input and output configuration with auto-sensing frequency 50/60Hz.

## Description

Discover the AEC Ferrus RT Series Rack UPS (1–3 kVA), a compact yet powerful solution engineered for maximum reliability and efficiency.
Its advanced 3-level IGBT inverter design delivers up to **94.5% AC-AC efficiency**, ensuring minimal energy waste and heat generation.
With a unity output power factor (PF = 1), every kVA translates directly into usable kilowatts, optimizing your power capacity.
Each Ferrus RT unit is equipped with internal batteries and a convenient DC port for external battery expansion.
A **robust 8A charger,** four times the typical industry standard, speeds up battery recharge times and allows up to 8 additional battery packs.
For connectivity, you get built-in RS-232 + USB and EPO ports, and optionally you can add SNMP or dry-contact modules for enhanced remote monitoring and integration.
AEC Ferrus RT UPS is ideal for IT load and racks enclosure where performance and space-efficiency matter most.

- UPS Uninterruptible Power Supply Rack 19"
  Online double conversion **3 Level IGBT Technology**;
- Unity output power factory PF=1 **kVA=kW**;
- **Rotating Colored LCD** Display via touch buttons;
- **Powerfull standard charger** 8A settable;
- **Advanced MOV** Voltage Sensitive **Surge Protection;**
- **Input-Output** 110/120V;
- Ultra-high efficiency up to **94.5%**;
- **NEMA Output** socket;
- **Multiple communications** RS232+EPO+USB Standard;
- **External battery banks compatibility**.

## Features

TIER 1 UPS
Highest efficiency

High-rate VRLA Batteries

8A Charger for fast recharge

THREE LEVEL 3 UPS

kW = kVA

94% Efficiency

WARRANTY 2 YEARS

24h/7 ASSISTANCE

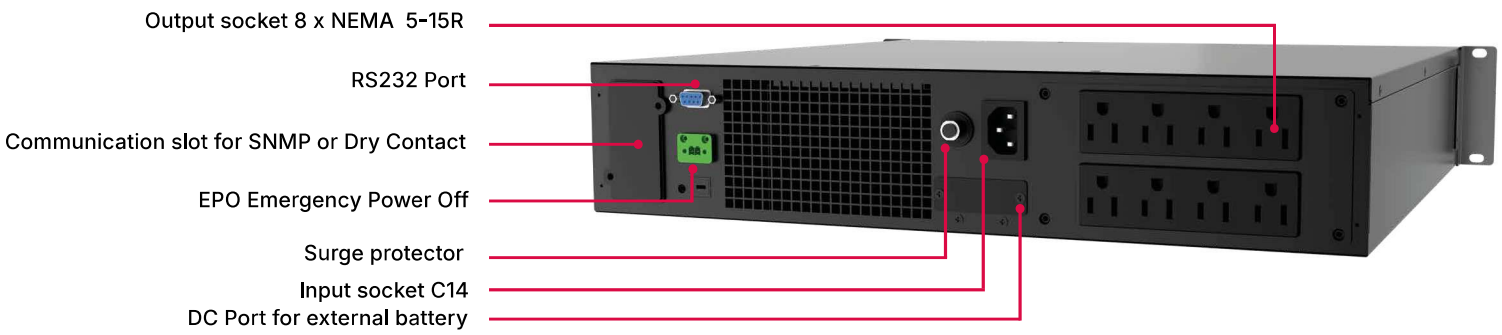
**Scan the QR code to find out more informations on FERRUS RT UPS!**

# UPS Online double conversion

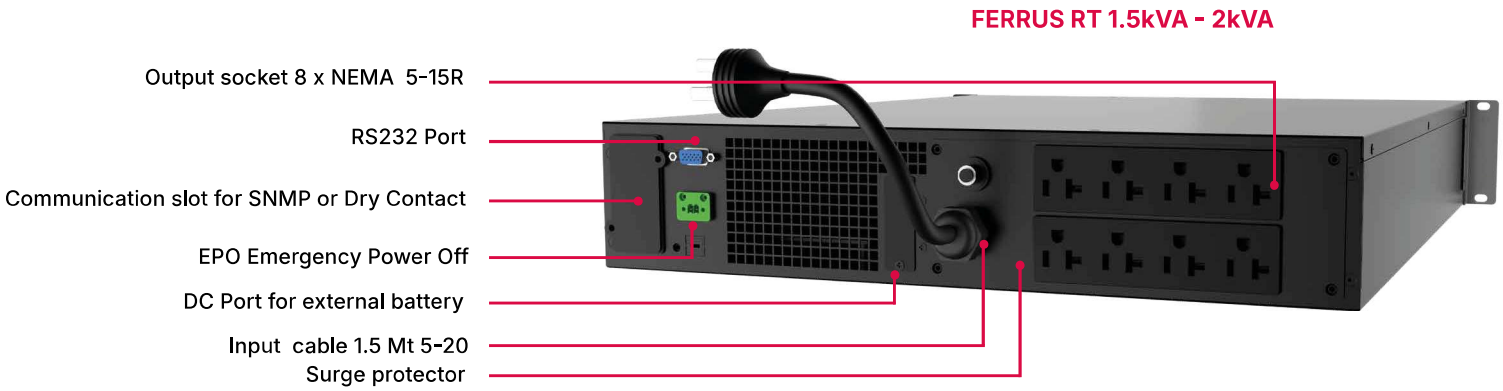
An Online Double-Conversion UPS constantly converts incoming AC to DC and back to AC. This means your devices always receive clean, perfectly regulated power with zero transfer time—there's never a moment of interruption, even during a blackout In contrast, a Line-Interactive UPS usually runs on mains power and switches to battery only when voltage swings too far, causing a brief interruption of about 2–10 ms

## Details

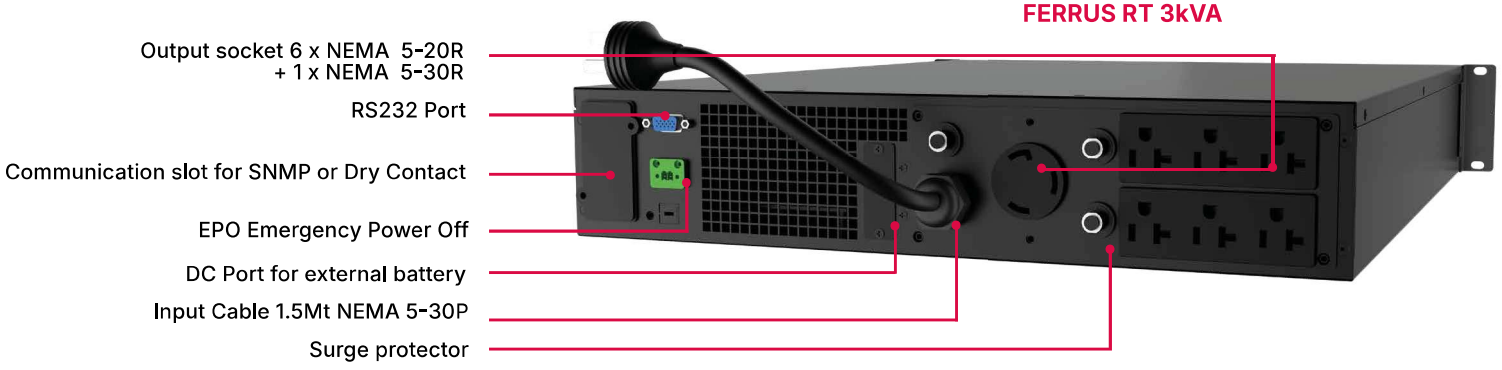
### FERRUS RT 1kVA




### FERRUS RT 1.5kVA - 2kVA




### FERRUS RT 3kVA



## Three level IGBT technology

The 3-level IGBT inverter delivers superior performance by switching between +Vdc, 0 V, and −Vdc, producing a cleaner, more sinusoidal output.

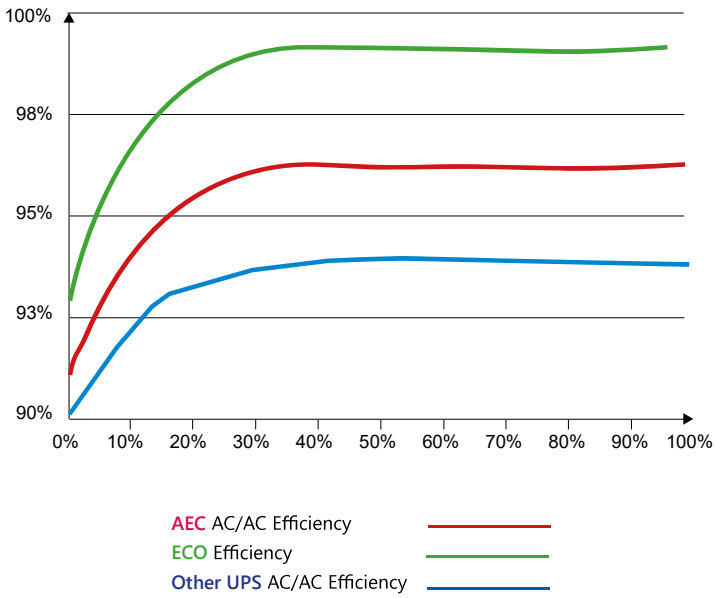
**Key benefits:**

**Low THD:** Minimizes distortion and interference.

**High Efficiency:** Exceeds 94% with reduced switching losses.

**Compact Design:** Smaller filters lower cost and space.

**Enhanced Reliability:** Reduced stress extends component life.




## Smart LCD Display

The integrated LCD display offers real-time visibility and complete control over all critical UPS parameters. Users can easily monitor input, bypass, and output voltages, load status, battery level, frequency, temperature, and communication settings—all from a single interface.

**Key features include:**

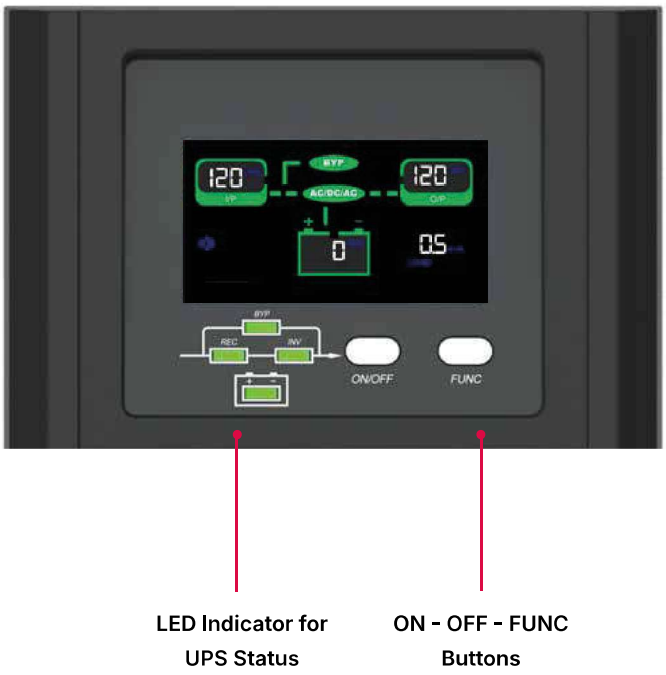
User-friendly navigation for quick access to system information and configuration.

Adjustable charger current (1–4/8A) directly from the display.

Customizable output voltage settings for site-specific needs.

Status indicators and event logs for fast diagnostics and performance tracking.

Designed for both technicians and end users, the display ensures intuitive control and rapid access to the UPS.




## Standards and certifications

Scan the QR code to download the User Manual FERRUS RT 1-3kVA!

# Technical specifications

| MODELS | FER1000RT-2X9 | FER1500RT-3X9 | FER2000RT-4X9 | FER3000RT-6X9 |
|---|---|---|---|---|
| **Input** | | | | |
| Voltage (VAC) | 55-150Vac | | | |
| Frequency (HZ) | 40~70Hz | | | |
| Input range (VAC) | 100% load@>90Vac 70% load@>70VAC 40% load@>50VAC | | | |
| Power factory | ≥0.99 | | | |
| THDI | ≤3% | | | |
| Socket - Plug | Socket C14 | Cable 1.5 Mt 5-20 | Cable 1.5 Mt 5-20 | Cable 1.5 Mt 5-30 |
| **Output** | | | | |
| Power capacity (W) | 1000 | 1500 | 2000 | 3000 |
| Power factor | 1 | | | |
| Voltage (VAC) | 100/110/115/120Vac | | | |
| Frequency (HZ) | 50/60±0.1 | | | |
| THD | ≤1%THD, linear load; ≤5%THD, non-linear load | | | |
| Waveform | Pure sinewave | | | |
| AC/AC Efficency | 94.5% | | | |
| Overload | 102%~110%: 10mins, 111%~130%:1mins,131%~150%: 30 seconds | | | |
| Socket - Plug | 6 x NEMA 5-15R | 6 x NEMA 5-15R | 8 x NEMA 5-20R | 6 x NEMA 5-20R<br>1 x NEMA 5-30R |
| **Battery** | | | | |
| Voltage (VDC) | 24Vdc | 36Vdc | 48Vdc | 72Vdc |
| Standard internal battery | 2x 12V/9Ah | 3x 12V/9Ah | 4x 12V/9Ah | 6x 12V/9Ah |
| Max. current Charger (A) | Max 8A settable 1-8 | | | |
| **Other specifications** | | | | |
| Recharging time | < 6 Hours | | | |
| Communications | Standard: RS232, E.P.O Contact and USB Port Optional: SNMP, Modbus, Dry contact | | | |
| Noise (DB) | <50dB | | | |
| Temperature (°F - °C) | 0°C - 40°C 32°F - 104°F | | | |
| Umidity | <95% | | | |
| Dimensions (W*D*H) in | 17.3*17.3*3.4 in (2U) | 17.3*17.8*3.4 in (2U) | 17.3*22.8*3.4 in (2U) | |
| Dimensions (W*D*H) cm | 44*44*8.6 cm (2U) | 44*45*8.6 cm (2U) | 44*58*8.6 cm (2U) | |
| Weight (Lb - Kg) | 41.8 Lb - 19 Kg | 48.5 Lb - 22 Kg | 51.8 Lb - 23.5 Kg | 61.7 Lb - 28 Kg |
| **Certifications** | | | | |
| Standards | CE (IEC EN 62040-1; EMC IEC EN 62040-2; IEC EN 62040-3); UL1778 | | | |

All information is for reference only, subject to change by AEC at any time, and does not constitute contractual obligations.

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