Catalog
UPS

2025

AEC

www.aecups.com

UPS Online | Series FERRUS

Power capacity: 1-3 kVA

FERRUS single-phase UPS are AEC's double conversion online UPS Series and comes in a tower format with powers starting from 1kVA up to 3kVA.
The UPS FERRUS series adopts the most innovative IGBT technologies with three level, ensuring efficiency up to 96% 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 UPS are single phase 110/120V input and output configuration with auto-sensing frequency 50/60Hz.

Description

Discover the AEC Ferrus Series Tower 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 unit is equipped with internal batteries and a convenient DC port for external battery expansion.
A **powerfull 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 Tower UPS is ideal for edge deployments where performance and space-efficiency matter most.

UPS Uninterruptible Power Supply Tower
Online double conversion **3 Level IGBT Technology**;

Unity output power factory PF=1 **kVA=kW**;

Colored LCD Display;

Powerfull 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 packs compatibility.

Features

TIER 1 UPS
Highest efficiency

High-rate VRLA
Batteries

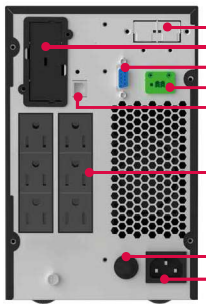
8A Charger for fast
recharge

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

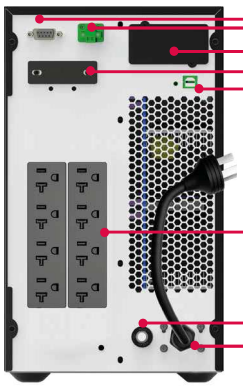
UPS Online double conversion

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

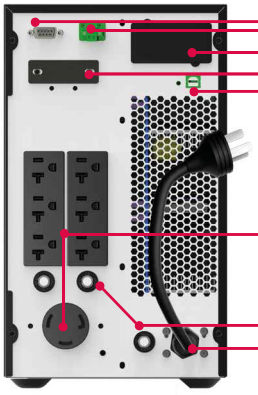
Details



FERRUS 1kVA



FERRUS 2kVA



FERRUS 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.

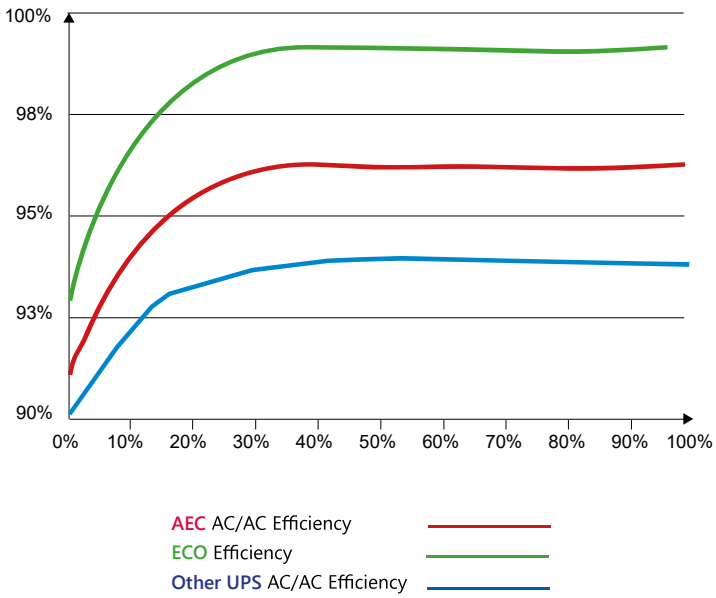
Key benefits:

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:

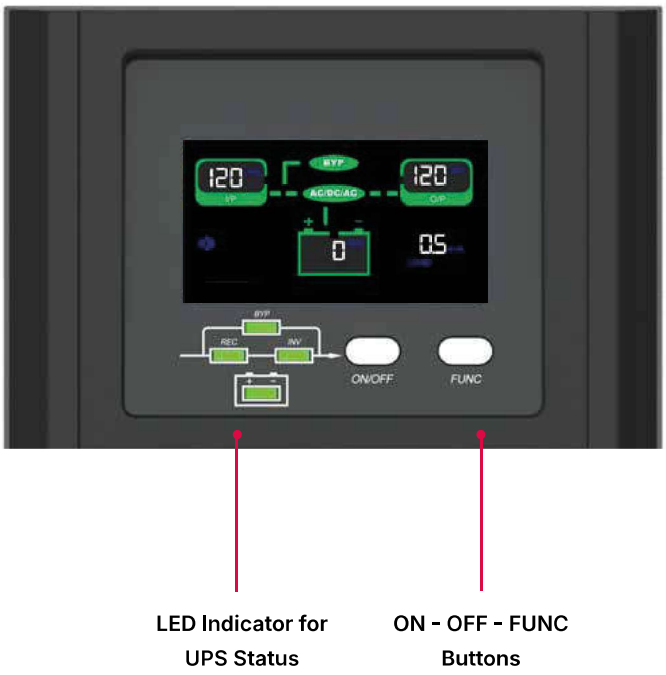
User-friendly navigation for quick access to system information and configuration.

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 1-3kVA!

Technical specifications

MODELS	FER1000-2X9	FER2000-4X9	FER3000-6X9
Input			
Voltage (VAC)	55-150Vac		
Frequency (HZ)	40~70Hz Auto-sensing		
Input range (VAC)	100% load@>90Vac 70% load@>70VAC 40% load@>50VAC		
Power factory	≥0.99		
THDI	≤3%		
Socket - Plug	C14	5ft input cable to C-20	5ft input cable to L5-30
Output			
Power capacity (W)	1000	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	8 x NEMA 5-20R	6xNEMA5-20R + 1xNEMA5-30R
Battery			
Voltage (VDC)	24Vdc	48Vdc	72Vdc
Standard internal battery	2x 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	5.6*13.9*8.6 in	5.6*15.6*8.6 in	
Dimensions (W*D*H) cm	14.2*35.3*21.6 cm	14.2*39.6*21.6 cm	
Weight (Lb - Kg)	16.5 Lb - 7.5 Kg	36.3 Lb - 16.5 Kg	45.2 Lb - 20.5 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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