

Catalog UPS FERRUS RT

2026



www.aecups.com

UPS Online | Series FERRUS RT

Single-phase 120V



Power capacity: 1-3 kVA

FERRUS RT single-phase UPS are AEC's **online double-conversion** UPS series in a **19" rack format**, with power ratings from 1 kVA up to 3 kVA. The FERRUS RT series adopts the most innovative 3-level IGBT technology, ensuring **efficiency up to 93%** and a **unity output power factor**.

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

Typical applications are 19" rack cabinets in server rooms, network closets and telecom sites, where a slim 2U unit with rails and a true online topology is required.

Description

The **AEC FERRUS RT rack UPS (1-3 kVA)** packs true online protection into a slim 2U rack unit. Its advanced **3-level IGBT inverter** design delivers up to **93% AC-AC efficiency**, keeping energy waste and heat generation to a minimum. With a **unity output power factor (PF = 1)**, every kVA translates directly into usable kilowatts, making the most of your power capacity.

Every FERRUS RT unit is equipped with internal batteries and a convenient DC port for external battery expansion. A **robust 8 A charger**, four times the industry standard, speeds up battery recharge and **allows up to 8 additional battery packs**.

For connectivity you get built-in RS-232, USB and EPO ports, and you can add SNMP or dry-contact modules for enhanced remote monitoring and integration.

The AEC FERRUS RT UPS is ideal for IT loads and rack enclosures where performance and space efficiency matter most.

Rack 19" Online double conversion **3 Level IGBT Technology**;

Unity output power factor $PF=1$ **kVA=kW**;

Rotating Colored LCD Display via touch buttons;

Powerful standard charger 8 A settable;

Advanced MOV Voltage Sensitive Surge Protection;

Input-Output 110/120V;

Ultra-high efficiency up to **93%**;

NEMA output receptacles;

Multiple communications RS-232+EPO+USB Standard;

External battery banks compatibility.

Features



Tier 1 UPS



High-Rate VRLA



8 A Fast Charger



120V 1-Phase



3-Level IGBT



Unity PF kVA=kW



93% Efficiency



3-Year Warranty



24/7 Support

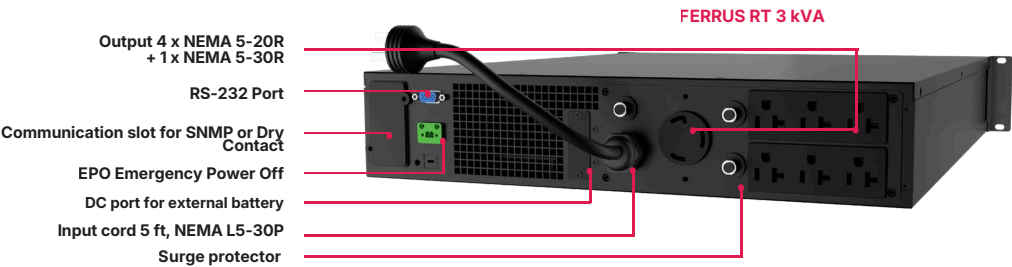
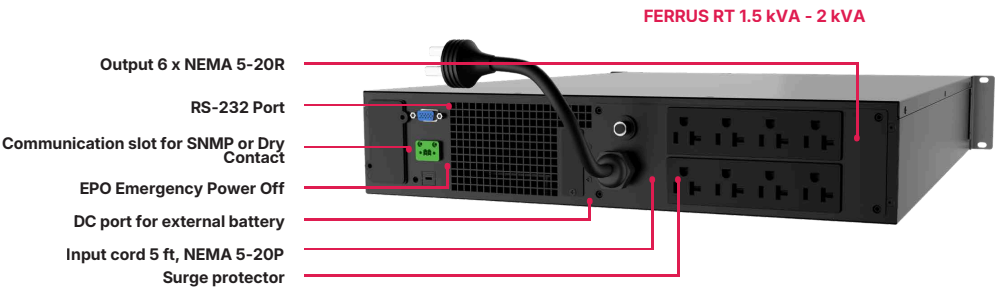
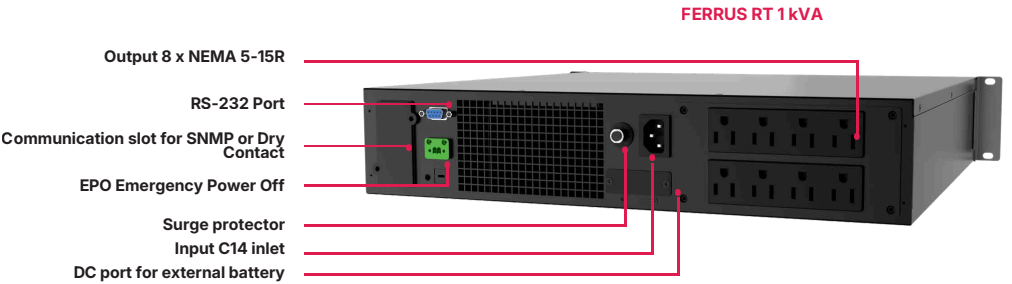
Scan the QR code to find out more information on FERRUS RT UPS!



UPS Online double conversion

An online double-conversion UPS continuously converts the incoming AC to DC and back to AC. Your equipment therefore always receives clean, perfectly regulated power with zero transfer time: there is never a moment of interruption, not even during a blackout. A line-interactive UPS, by contrast, normally runs on utility power and switches to battery only when the voltage swings too far, causing a brief interruption of about 2 to 10 ms.

Details



High Efficiency - 3 level IGBT technology

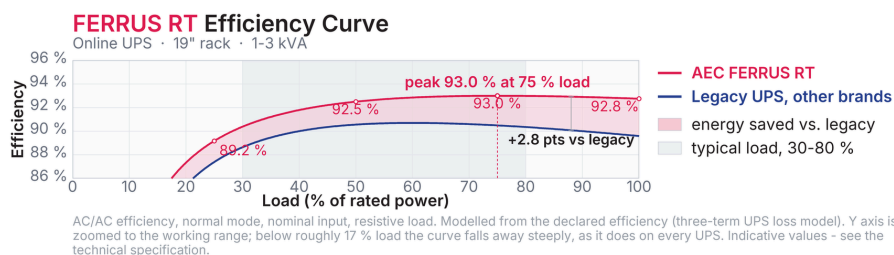
The 3-level IGBT inverter delivers superior performance by switching between +Vdc, 0 V and -Vdc, producing a cleaner, more sinusoidal output.

Enhanced reliability — reduced stress on the components extends their life.

Low THD — minimizes distortion and interference on the output.

High efficiency — up to 93%, thanks to reduced switching losses.

Compact design — smaller filters mean lower cost and less space.



Smart LCD Display

The integrated LCD display gives real-time visibility and complete control over every critical UPS parameter. From a single interface the user can monitor input, bypass and output voltages, load status, battery level, frequency, temperature and communication settings.

Key features include:

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

Adjustable charger current — 1 to 8 A, set directly from the display.

Customizable output voltage — settings tailored to the needs of the site.

Status indicators and event log — fast diagnostics and performance tracking.

Battery test and self-diagnostics — periodic tests and clear alarms show the real condition of the batteries.

Designed for technicians and end users alike, the display ensures intuitive control and rapid access to every function of the UPS, on site and through the communication ports.



LED Indicator for
UPS Status

ON - OFF - FUNC
Buttons

Standards and certifications



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



FERRUS RT 1-3 kVA

Single-phase 120V

MODELS	FER1000RT-2X9	FER1500RT-4X9	FER2000RT-4X9	FER3000RT-6X9
Input				
Voltage (VAC)	55-150 VAC			
Frequency (Hz)	40-70 Hz			
Input range (VAC)	100% load @ >90 VAC 70% load @ >70 VAC 40% load @ >50 VAC			
Power factor	≥0.99			
THDi	≤3%			
Inlet / cord	C14 inlet	C19 inlet	5 ft cord, NEMA 5-20P	5 ft cord, NEMA L5-30P
Output				
Power capacity (W)	1000	1500	2000	3000
Power factor	1			
Voltage (VAC)	100/110/115/120 VAC			
Frequency (Hz)	50/60±0.1			
THD	≤1% THD, linear load; ≤5% THD, non-linear load			
Waveform	Pure sine wave			
AC/AC Efficiency	93%	93%	93%	93%
Overload	102-110%: 10 min · 111-130%: 1 min · 131-150%: 30 s			
Receptacles	8 x NEMA 5-15R	6 x NEMA 5-20R	6 x NEMA 5-20R	4 x NEMA 5-20R + 1 x 5-30R
Battery				
Voltage (VDC)	24 VDC	48 VDC	48 VDC	72 VDC
Standard internal battery	2x 12V/9Ah	4x 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: RS-232, EPO contact and USB port · Optional: SNMP, Modbus, dry contact			
Noise (dB)	<50 dB			
Temperature (°F - °C)	32°F - 104°F · 0°C - 40°C			
Humidity	<95%			
Dimensions (W x D x H) in	17.3 x 17.3 x 3.4 in	17.3 x 17.3 x 3.4 in	17.3 x 17.8 x 3.4 in	17.3 x 22.8 x 3.4 in
Dimensions (W x D x H) cm	44 x 44 x 8.6 cm	44 x 44 x 8.6 cm	44 x 45 x 8.6 cm	44 x 58 x 8.6 cm
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); UL 1778			
Price-list codes: FER1000RT-2X9, FER1500RT-4X9, FER2000RT-4X9, FER3000RT-6X9. External battery cabinets, 1 to 4 per unit: BAT0424RT (1 kVA), BAT0848RT (1.5 and 2 kVA), BAT1272RT (3 kVA). Battery 12 V / 9 Ah: CSB-9AH.				

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



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