Catalog
UPS

2025

AEC

www.aecups.com

UPS Online | Series FERRUS RT SP

Power capacity: 6-10 kVA

FERRUS RT SP Split-phase UPS are AEC's double conversion online UPS Series and comes in a Rack 19" format with powers starting from 6kVA up to 10kVA.
The UPS FERRUS RT SP series adopts the most innovative IGBT technologies with three level, ensuring efficiency up to 94% and a unitary output power factor.

The UPS are available in models with combined with external battery cabinets for longer runtimes.
FERRUS RT SP UPS are split-phase 120/240V input and output configuration with auto-sensing frequency 50/60Hz.

Description

Discover the AEC Ferrus RT SP Series Split Phase UPS (6–10 kVA), a compact yet powerful solution engineered for maximum reliability and efficiency in 120/240V applications. Its advanced 3-level IGBT inverter design delivers up to 94% AC-AC efficiency, minimizing energy waste and reducing heat generation.
With a **unity output power factor (PF = 1)**, every kVA provides full usable kilowatts, maximizing your power output. Each Ferrus SP unit includes a DC port for external battery expansion, and an **integrated isolation transformer for complete galvanic separation**, electrical noise suppression, and enhanced safety.
A powerful **8A charger**, equal to four times the industry standard—accelerates battery recharge times and supports up to 8 additional battery packs. For connectivity, the unit features RS-232 + USB and EPO ports as standard, with optional SNMP or dry-contact modules for advanced remote monitoring and system integration.

UPS Uninterruptible Power Supply Rack 19"
Online double conversion **3 Level IGBT Technology**;

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

Isolation transformer integrated;

Powerfull standard charger 8A settable;

Maintenance manual bypass integrated;

Input-Output Split phase 120/240V;

Ultra-high efficiency up to **94%**;

Output Terminal block;

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

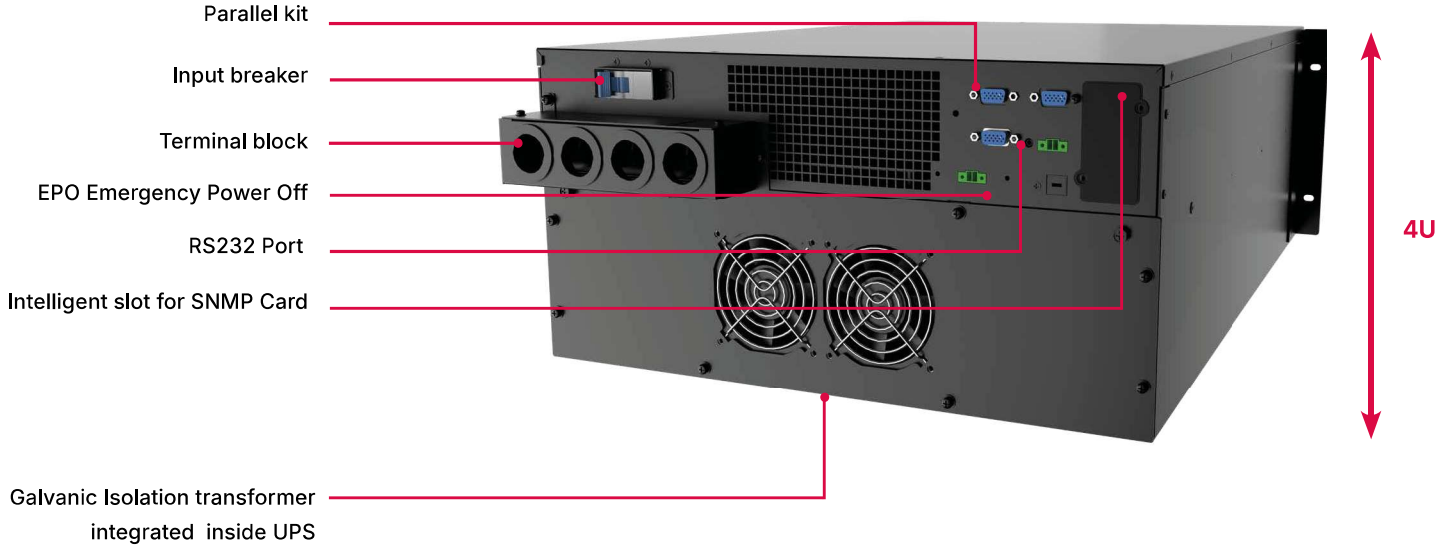
Scan the QR code to find out more informations on FERRUS SP RT UPS!

UPS integrated isolation transformer

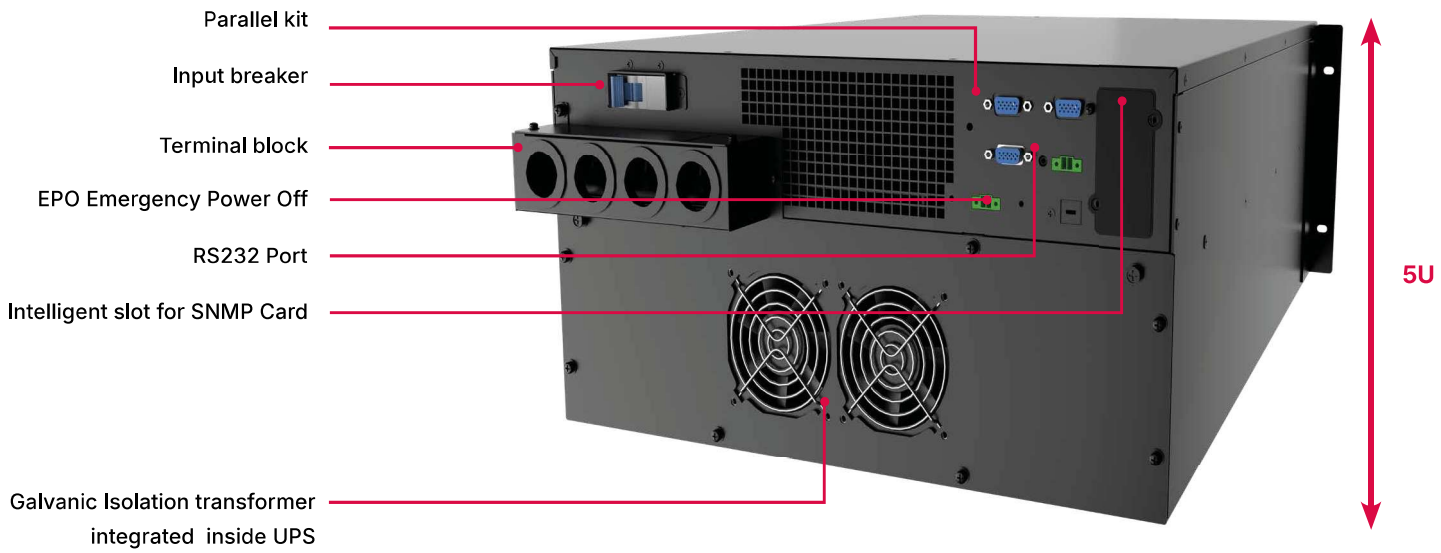
This high-performance Split Phase 120/240V UPS features an **integrated isolation transformer** that provides complete galvanic isolation, suppresses electrical noise, and protects against ground loops and voltage disturbances. Designed for critical applications, it ensures clean, stable, and uninterrupted power for sensitive electronics, mixed-voltage loads, and environments where electrical integrity is essential.

Details

FERRUS SP RT 6kVA



FERRUS SP RT 10kVA



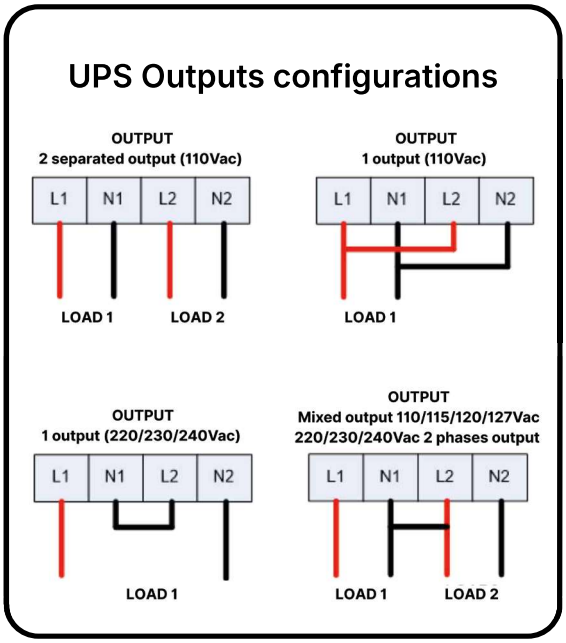
Multiple output configurations

Dual Independent 120V Outputs
Each output delivers 110–127 V (user-selectable) with 50% of the total rated power per output.

Single 120V Full Power Output
The system delivers 110–127 V at 100% of the UPS's rated power.

Single 220–240V Output
Delivers 220–240 V at full rated power.

Mixed Output Configuration
Connect Load 1 between L1 and N2 → 110–127 V
Connect Load 2 between L2 and N2 → 110–127 V
Connect Load 3 between L1 and N2 → 220–240 V
Connect 2-phase load between L1–N1–N2 → Two 120 V phases at 180°



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:

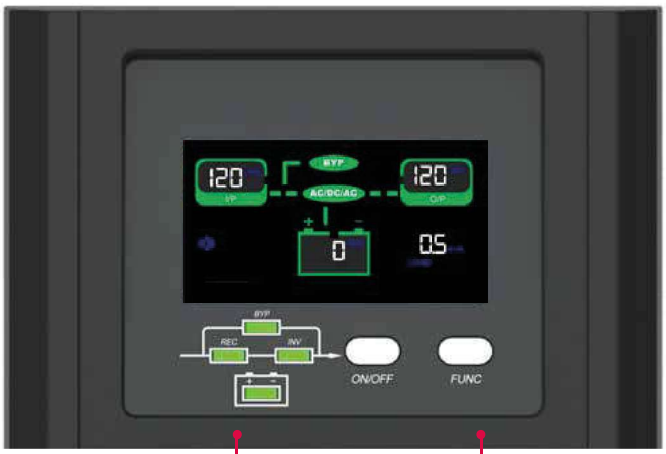
User-friendly navigation for quick access to system information and configuration.

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.



LED Indicator for UPS Status

ON - OFF - FUNC Buttons

Standards and certifications

Scan the QR code to download the User Manual FERRUS SP RT 6-10kVA!

Technical specifications

MODELS	FER6000SPRT-16X9	FER10000SPRT-16X9
Input		
Voltage (VAC)	120/208V (Split phase L1,L2,N,G); 120/240V (Split phase L1,L2,N,G)	
Frequency (HZ)	40~70Hz	
Input range (VAC)	L-L 110~300VAC	
Power factory	≥0.99	
THDI	≤3%	
Phase	L+N+G	
Socket - Plug	Terminal block	
Output		
Power capacity (W)	6000	10000
Power factor	1	
Voltage (VAC)	120/208V (Split phase L1,L2,N,G); 120/240V (Split phase L1,L2,N,G)	
Frequency (HZ)	50/60±0.1	
THD	≤1%THD, linear load; ≤5%THD, non-linear load	
Waveform	Pure sinewave	
AC/AC Efficency	94%	
Overload	102%~110%: 10mins, 111%~130%:1mins,131%~150%: 30 seconds	
Socket - Plug	Terminal block	
Battery		
Voltage (VDC)	192/240Vdc settable	
Standard internal battery	16 x 12V/9Ah	
Max. current Charger (A)	Max 8A settable 1-8	
Other specifications		
Recharging time	< 8 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*22.8*6.7 in (4U) + 3U Battery cabinet	17.3*22.8*8.5 in (5U) + 3U Battery cabinet
Dimensions (W*D*H) cm	44*58*17 cm (4U) + 3U Battery cabinet	44*58*21.6 cm (5U) + 3U Battery cabinet
Weight (Lb - Kg)	128Lb - 58Kg (+48Kg/106Lb batt 3U)	143Lb - 65Kg (+48Kg/106Lb batt 3U)
Certifications		
Standards	CE (IEC EN 62040-1; EMC IEC EN 62040-2; IEC EN 62040-3); UL1778	

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