

Catalog UPS

2025



www.aecups.com

UPS Online | Series FERRUS SP



Power capacity: 6-10 kVA

FERRUS SP Split-phase UPS are AEC's double conversion online UPS Series and comes in a Tower format with powers starting from 6kVA up to 10kVA.

The UPS FERRUS SP 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 SP UPS are split-phase 120/240V input and output configuration with auto-sensing frequency 50/60Hz.

Description

Discover the AEC Ferrus 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 internal batteries, 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 factor 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 for hardwire installations;

Multiple communications RS232+EPO+USB Standard;

External battery banks compatibility.

Features



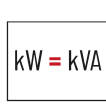
TIER 1 UPS
Highest efficiency



High-rate VRLA
Batteries



8A Charger for fast
recharge



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

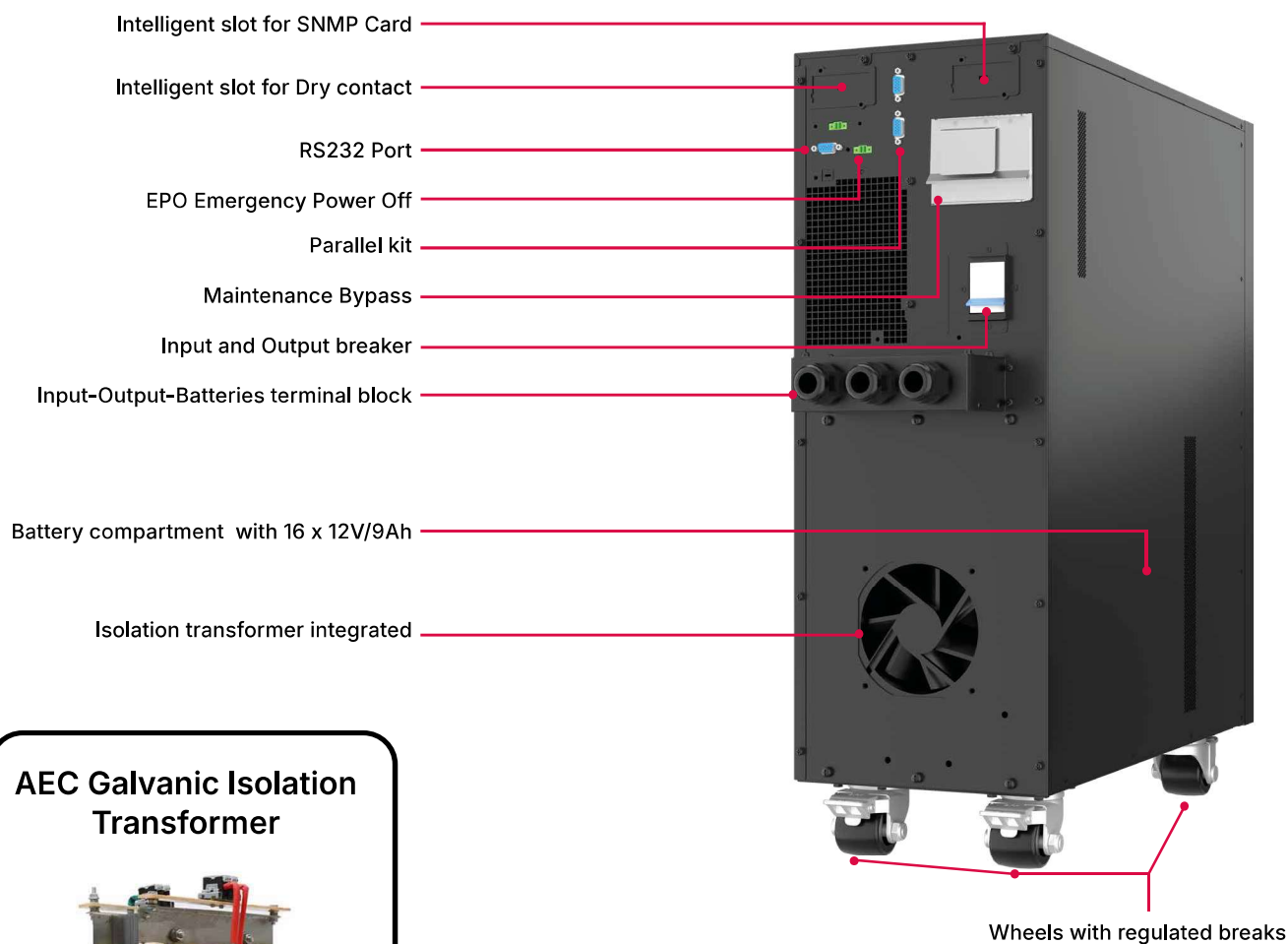


UPS integrated isolation transformer

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

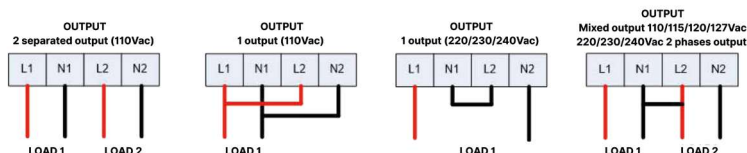
FERRUS SP 6kVA - 10kVA



AEC Galvanic Isolation Transformer



UPS Outputs configurations



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.

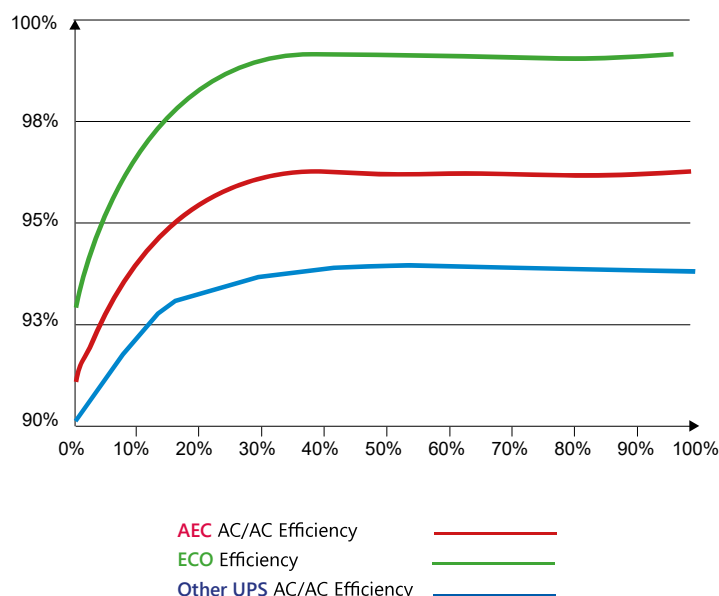
Key benefits:

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.



LED Indicator for
UPS Status

ON - OFF - FUNC
Buttons

Standards and certifications



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



Technical specifications

MODELS	FER6000SP-16X9	FER10000SP-16X9
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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 Efficiency	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	9.8*23.6*29.1 in	
Dimensions (W*D*H) cm	25*60*74 cm	
Weight (Lb - Kg)	214Lb - 97Kg (including batteries)	235Lb - 107Kg (including batteries)

Certifications

Standards	CE (IEC EN 62040-1; EMC IEC EN 62040-2; IEC EN 62040-3); UL1778	
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