

Catalog UPS FERRUS SP RT

2026



www.aecups.com

UPS Online | Series FERRUS SP RT

Split-phase 240V



Power capacity: 6-10 kVA

FERRUS SP RT split-phase UPS are AEC's online double-conversion UPS series in a **19" rack format**, with power ratings from **6 kVA up to 10 kVA**. The FERRUS SP RT series adopts the most innovative **3-level IGBT technology**, ensuring **efficiency up to 93%** and a **unity output power factor**.

The UPS has internal batteries and can be combined with 3U external battery cabinets for longer runtimes. FERRUS SP RT UPS have a split-phase 120/240 V input and output configuration with auto-sensing 50/60 Hz frequency.

Typical applications are 19" racks on 240 V split-phase circuits, where the UPS and its battery cabinets share the rack with the protected equipment.

Description

The **AEC FERRUS SP RT series split-phase UPS** (6 to 10 kVA) delivers reliable, efficient power for **120/240 V applications**. Its advanced **3-level IGBT inverter delivers up to 93% AC-AC efficiency**, minimizing energy waste and heat generation. With a **unity output power factor (PF = 1)**, every kVA translates directly into usable kilowatts, making the most of your power capacity.

Every FERRUS SP RT 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 8 A charger**, four times the industry standard, speeds up battery recharge and supports up to four BAT16192RT battery cabinets.

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.

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

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

Isolation transformer integrated;

Powerful standard charger 8 A settable;

Maintenance manual bypass integrated;

Input-Output Split phase 120/240V;

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

Output Terminal block;

Multiple communications RS-232+EPO+USB Standard;

External battery banks compatibility.

Features



Tier 1 UPS



High-Rate VRLA



8 A Fast Charger



120/208/240V



3-Level IGBT



Unity PF kVA=kW



93% Efficiency



3-Year Warranty



24/7 Support

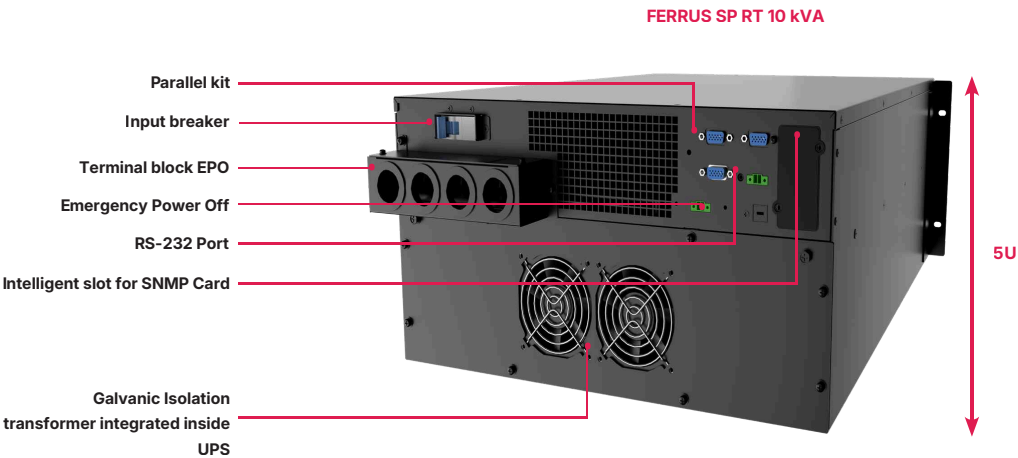
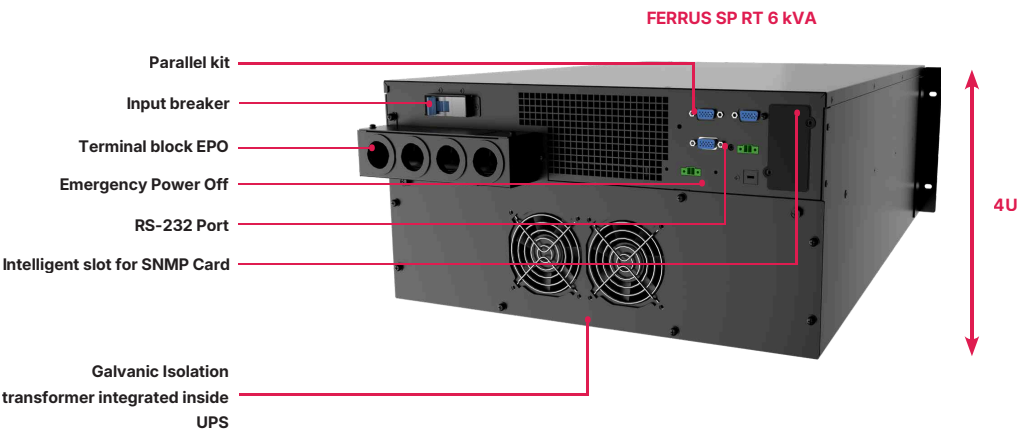
Scan the QR code to find out more information on FERRUS SP RT UPS!



UPS integrated isolation transformer

This high-performance split-phase 120/240 V 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 every environment where electrical integrity is essential.

Details



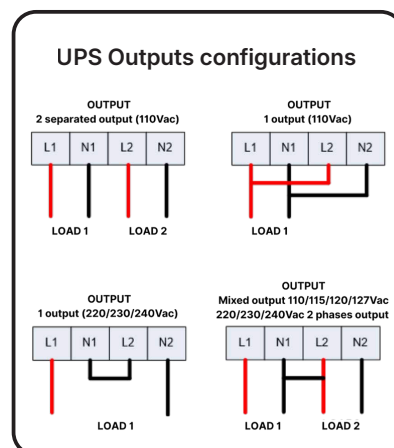
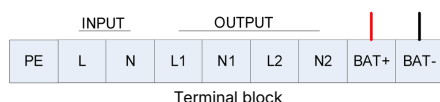
Multiple output configurations

Two independent 120 V outputs — each output delivers 110 to 127 V (user-selectable) with 50% of the total rated power per output.

Single 120 V full-power output — the system delivers 110 to 127 V at 100% of the UPS's rated power.

Single 220-240 V output — delivers 220 to 240 V at full rated power.

Mixed output configuration — connect load 1 between L1 and N (110 to 127 V), load 2 between L2 and N (110 to 127 V) and load 3 between L1 and L2 (220 to 240 V); a load connected across L1-N-L2 sees two 120 V legs 180° apart.



Touch LCD Display

The integrated color touch LCD gives real-time visibility and complete control over every critical UPS parameter: input, bypass and output voltages, load status, battery level, frequency, temperature and communication settings, from a single touch interface.

Key features include:

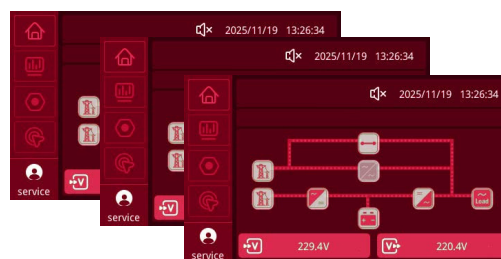
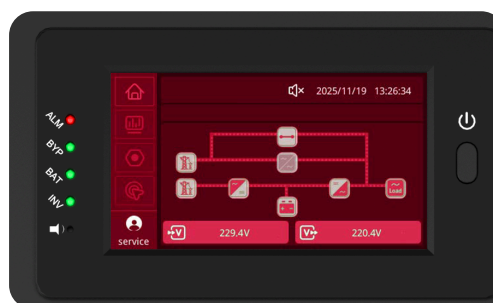
Touch navigation — menus and settings are reached with a tap, with no button sequences to remember.

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

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

Status indicators — LED for alarm, bypass, battery and inverter, plus event log for fast diagnostics.

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 the UPS.



Standards and certifications



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



FERRUS SP RT 6-10 kVA

Split-phase 240V

MODELS	FERSPRT6000-16X9		FERSPRT10000-16X9
Input			
Voltage (VAC)	120/240 V (split phase L1, L2, N, G)		
Frequency (Hz)	40-70 Hz		
Input range (VAC)	L-L 110-300 VAC		
Power factor	≥0.99		
THDi	≤3%		
Phase	L1+L2+N+G		
Connection	Terminal block		
Output			
Power capacity (W)	6000	10000	
Power factor	1		
Voltage (VAC)	120/240 V (split phase L1, L2, N, G)		
Frequency (Hz)	50/60±0.1		
THD	≤1% THD, linear load; ≤5% THD, non-linear load		
Waveform	Pure sine wave		
AC/AC Efficiency	93%		
Overload	102-110%: 10 min · 111-130%: 1 min · 131-150%: 30 s		
Connection	Terminal block		
Battery			
Voltage (VDC)	192/240 VDC 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: 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 22.8 x 6.7 in (4U) + 3U Battery cabinet	17.3 x 22.8 x 8.5 in (5U) + 3U Battery cabinet	
Dimensions (W x D x H) cm	44 x 58 x 17 cm (4U) + 3U Battery cabinet	44 x 58 x 21.6 cm (5U) + 3U Battery cabinet	
Weight (lb - kg)	128 lb - 58 kg (+48 kg/106 lb batt 3U)	143 lb - 65 kg (+48 kg/106 lb batt 3U)	
Certifications			
Standards	CE (IEC EN 62040-1; EMC IEC EN 62040-2; IEC EN 62040-3); UL 1778		
Price-list codes: FERSPRT6000-16X9, FERSPRT10000-16X9. External battery cabinets BAT16192RT, 1 to 4 per unit. 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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