Catalog
UPS

2025

AEC

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UPS Online | Series CIRRO

Power capacity: 60-720 kVA

AEC CIRRO Series UPS (60–720 kVA) is a modular three-phase solution designed for maximum flexibility, efficiency, and resilience.
Built on a **scalable N+X architecture,** the system allows hot-swappable 60 kW power modules within two compact 360 kVA frame and 720kVA frame—ideal for growing power demands without system downtime.

Its modularity ensures redundancy and fault tolerance, reducing the risk of critical failures and simplifying maintenance operations. With high-efficiency online double conversion and **unity power factor (PF = 1)**, the Radiant Series delivers clean, reliable power while minimizing energy losses.

Description

CIRRO unit features a fully programmable touchscreen display, giving technicians complete access to system parameters, configuration, and diagnostics.
Equipped with a **powerful 80A charger**, it supports fast and efficient battery recharging—ideal for extended autonomy setups.
Battery configurations are highly flexible, allowing tailored runtimes to meet the specific needs of each installation. The **modular design** supports **N+1 and N+N redundancy**, ensuring uninterrupted operation even in fault conditions or maintenance events.

Seamless communication integration is enabled via RS-232, USB, SNMP, and dry contacts, with optional parallel kits for future capacity expansion.

UPS Uninterruptible Power Supply
Modular technology N+X;

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

Three level IGBT Technology;

Powerfull standard charger 80A settable;

10" Touch screen color display;

Input-Output 480V;

Ultra-high efficiency up to **96%**;

Hot-swappable power module 60kVA;

Multiple communications RS232+EPO+USB Standard;

Parallel up to 8 units.

Features

TIER 1 UPS
Highest efficiency

High-rate VRLA
Batteries

8A Charger for fast
recharge

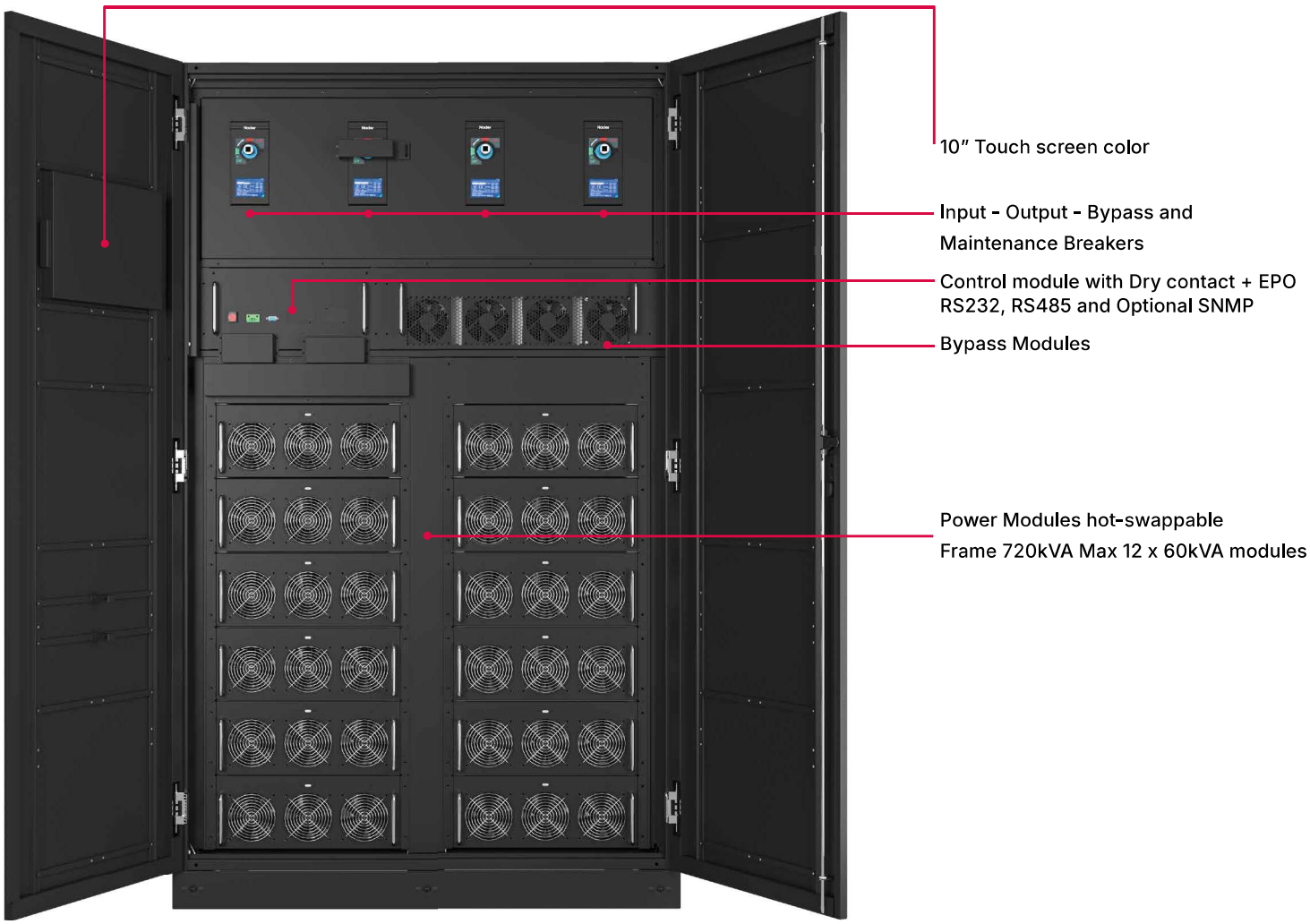
Scan the QR code to find out more informations on CIRRO UPS!

UPS Modular technology N+X

Modular UPS technology revolutionizes power protection by offering scalability, flexibility, and serviceability in a single solution. Unlike traditional monolithic systems, a modular UPS is composed of independent power modules that can be added, removed, or replaced without shutting down the system.

This architecture enables N+X redundancy, where "N" is the number of modules required to support the full load, and "X" represents additional modules for backup. For example, a 160 kW load can be protected by five 40 kW modules (N=4, X=1), ensuring continued operation even if one module fails.

Details



CIRRO 60-720kVA

Touch screen Smart Display

Clear Display: A 7-inch color touchscreen provides an easy and intuitive way to control the UPS.

Secure Access: Three access levels (User, Technician, Manufacturer) protect system settings.

Full Configuration: Adjust input, output, battery, communication, language, and operating modes directly from the screen.

Live Monitoring: View real-time data like voltage, load, frequency, and battery status by cell at a glance.

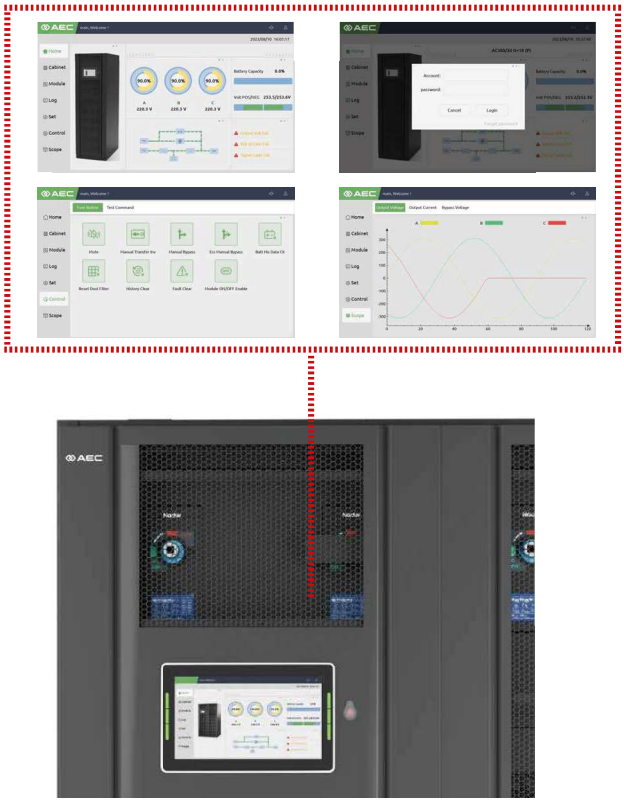
Event History: The UPS logs up to 10,000 events, downloadable via the built-in USB port.

Generator Ready: Advanced settings ensure stable operation and communications with diesel generators.

Custom Alarms: Set and manage dry contact alarms right from the touchscreen.

Self-Cleaning: Automatic fan cycles help remove dust and keep internal parts clean.

Waveform Display: The system periodically records inverter, rectifier, and control waveforms for diagnostics.



7 inches Touch Screen

Three level IGBT technology

A 3-level IGBT inverter introduces an intermediate voltage state (0 V), yielding three discrete levels: +Vdc, 0 V, and –Vdc.

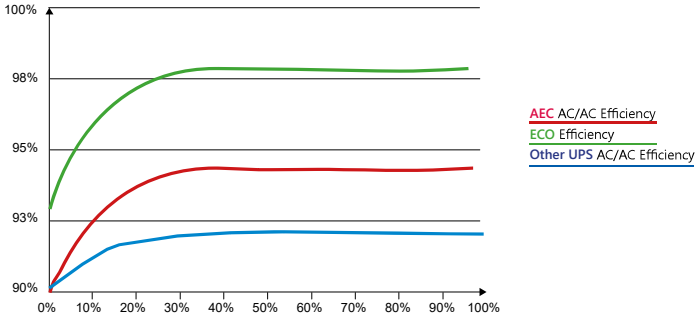
This small enhancement dramatically improves performance:

Cleaner waveform: The staircase-shaped output more closely resembles a sine wave, reducing THD and interference.

Lower Harmonic Distortion (THD): 3 level IGBT reduces THD compared to the 2-level's rough waveform, improving power quality and reducing harmonic pollution.

Lower switching stress: Smaller voltage transitions mean each IGBT experiences less stress and switching loss, allowing for the use of lower-voltage, faster devices.

Higher efficiency: With reduced losses, heat dissipation and improved waveform quality, efficiency jumps above 96%, especially in new demanding critical power applications.



Standards and certifications

Scan the QR code to download the User Manual CIRRO 60-720kVA!

Technical specifications

MODELS	CIR360-XX60	CIR720-XX60
Input		
Voltage (VAC)	480Vac (L-L)	
Frequency (HZ)	40~70Hz	
Input range (VAC)	384-528VAC(L-L)@full load, 288-384VAC (L-L) power derate from 100% to 75%	
Power factory	≥0.99	
THDI	≤3%	
Phase	3W+N+G	
Output		
Power Module (kW)	60kVA	
Frame capacity (kW)	360kVA (Max 6 Modules x 60kVA)	720kVA (Max 12 Modules x 60kVA)
Power factor	1	
Voltage (VAC)	480Vac (L-L)	
Frequency (HZ)	50/60±0.1	
THD	≤1%THD, linear load; ≤5%THD, non-linear load	
Waveform	Pure sinewave	
AC/AC Efficency	96%	
Overload	110% 1 hour, 125%10 mins, 150% 1 min, >150% 200ms	
Battery		
Voltage (VDC)	Min ±180Vdc Max ±300Vdc settable by display	
Standard battery set	±180Vdc	
Max. current Charger (A)	20% * UPS maximum capacity	
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	23.6*39.3*78.7	47.2*43.3*78.7
Dimensions (W*D*H) cm	60*100*200 cm	120*110*200 cm
Frame Weight (Lb - Kg)	546 Lb - 247 Kg	1274 Lb - 578 Kg
Power module (Lb - Kg)	90.4 Lb - 41 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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