Catalog
UPS

2025

AEC

www.aecups.com

UPS Online | Series INFINITE

Power capacity: 80-1200kVA

AEC INFINITE Series UPS (80–1200 kVA) is a modular three-phase solution designed for maximum flexibility, efficiency, and resilience.
Built on a **scalable N+1 architecture,** the system allows hot-swappable 100 kW power modules within two compact 100kVA+1 frame and 200kVA+1 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 Infinite Series delivers clean, reliable power while minimizing energy losses.

Description

Our new UPS generation introduces **Silicon Carbide (SiC)-enhanced IGBT technology on the Power Factor Correction (PFC) stage,** delivering unprecedented efficiency and performance in critical power applications.

INFINITE unit features a fully programmable touchscreen display, giving technicians complete access to system parameters, configuration, and diagnostics. ù

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+1;

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

Silicon carbide (SiC) semiconductors Technology;

Powerfull standard charger 120A settable;

7" Touch screen color display;

Input-Output 480V;

Ultra-high efficiency up to **97.5%**;

Hot-swappable power module 100kVA;

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

THREE LEVEL 3 UPS

kW = kVA

97% Efficiency

WARRANTY 2 YEARS

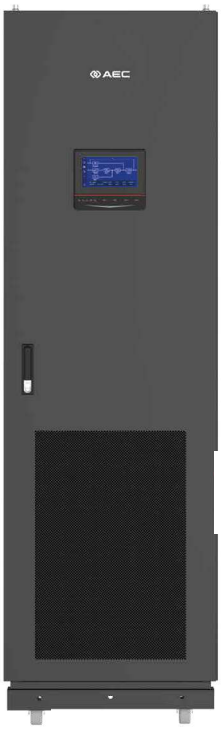
24h/7 ASSISTANCE

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

UPS Modular technology N+1

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.

Details



INFINITE 80-200kVA

INFINITE 600kVA

INFINITE 1000-1200kVA

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

Silicon Carbide (SiC) Technology

Our new UPS generation introduces **Silicon Carbide (SiC)-enhanced IGBT technology on the Power Factor Correction (PFC) stage,** delivering unprecedented efficiency and performance in critical power applications.
Unlike traditional silicon devices, SiC semiconductors exhibit **much lower switching** and **conduction losses,** higher breakdown voltage capability, and **superior thermal conductivity.**

Unmatched Efficiency → SiC-based PFC allows efficiency to exceed 97.5%, significantly reducing wasted energy and lowering OPEX.

Reduced Losses → SiC's faster switching and lower ON-resistance minimize conduction and switching losses, especially at partial loads where conventional IGBTs suffer.

Higher Power Density → The ability to operate at higher switching frequencies means smaller passive components (inductors, capacitors, filters), enabling more compact UPS systems without compromising performance.

Lower Cooling Requirements → With less heat generated, the UPS requires reduced thermal management, extending component lifetime and allowing denser rack installations.

Superior Grid Performance → SiC-enabled PFC delivers near-unity power factor across the full load range, with ultra-low input current THD, ensuring compliance with the most demanding power quality standards.

By combining the robust design of IGBT architecture with the game-changing properties of SiC materials, our UPS achieves a new benchmark: maximum energy efficiency, reduced operational costs, and higher reliability in a smaller footprint.

Standards and certifications

Scan the QR code to download the User Manual INFINITE Series!

Technical specifications

MODELS	INF-80/100	INF-160/200
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% (resistive full load)	
Phase	3W+G	
Output		
Power Module (kW)	100kW	
Frame capacity (kW)	100kW+1 (2 Modules x 100kW)	200kW+1 (3 Modules x 100kW)
Power factor	1	
Voltage (VAC)	480Vac (L-L)	
Frequency (HZ)	50/60±0.1	
THDv	≤1%THD, linear load; ≤3%THD, non-linear load	
Waveform	Pure sinewave	
AC/AC Efficency	97.3%	
Overload	110% 1 hour, 125%10 mins, 150% 1 min, >150% 300ms	
Battery		
Voltage (VDC)	360-600Vdc settable by display (480-600Vdc full load)	
Standard battery set	480Vdc	
Max. current Charger (A)	Maximum 60A * UPS Modules	
Other specifications		
Recharging time	< 6 Hours VRLA and < 2 Hours LFP	
Communications	Standard: RS232, E.P.O Contact and USB Port Optional: SNMP, Modbus, Dry contact	
Noise (DB)	<65-68.5 dB	
Temperature (°F - °C)	0°C - 40°C 32°F - 104°F	
Umidity	<95%	
Dimensions (W*D*H) in	23.6*39.3*78.7	
Dimensions (W*D*H) cm	60*100*207 cm	
Frame Weight (Lb - Kg)	881 Lb - 400 Kg	992 Lb - 450 Kg
Power module (Lb - Kg)	121.2 Lb - 55 Kg	
Certifications		
Standards	UL1778, FCC Class A, CE (IEC EN 62040-1; EMC IEC EN 62040-2; IEC EN 62040-3);	

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

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