Catalog
UPS

2025

AEC

www.aecups.com

UPS Online | Series AUREON

Power capacity: 10-30 kVA

The AUREON three-phase UPS (10-30kVA) are AEC's three-phase online UPS range, double conversion tower UPS in powers 10kVA - 20kVA - 30kVA.
UPS AUREON series adopts the most innovative 3-level IGBT technologies, ensuring **efficiency up to 94%** and a unitary output power factor.

AUREON UPS Series incorporates cutting-edge features to ensure reliable and continuous power protection for critical electronic equipment.
One of its standout features is the high capability of internal VRLA battery hot swappable modules.

Description

Discover the AEC Aureon Series UPS (10–30 kVA), a next-generation three-phase solution designed for demanding 208V power applications.
Its cutting-edge **3-level IGBT inverter** architecture delivers up to 94% AC-AC efficiency, ensuring lower energy losses and minimal heat output. With a **unity output power factor (PF = 1)**, it provides full active power, maximizing capacity and performance for every connected load.
Aureon unit features **advanced internal VRLA Hot-swappable** batteries, offering a maximum internal capability of 80 batteries x 12V/9Ah.
A smart Battery Management System (BMS) continuously monitors battery health for enhanced safety and performance. The **large color touchscreen display** provides intuitive, real-time access to system status and configuration. Built-in RS485, Dry contact, and EPO ports come standard.

- UPS Uninterruptible Power Supply 3 Phase 208V Online double conversion **3 Level IGBT Technology**;
- Unity output power factory PF=1 **kVA=kW**;
- **Hot-swappable VRLA Batteries**;
- **4.3" Touch screen color display**;
- **Cold start - Self cleaning** and other smart functions
- **Input-Output** 3 Phase 208/208V;
- Ultra-high efficiency up to **94%**;
- **Modbus and dry contact** standard communications;
- **Fully customizable by display**;
- **Waveform recording** on display.

Features

TIER 1 UPS
Highest flexibility

High-rate VRLA Batteries

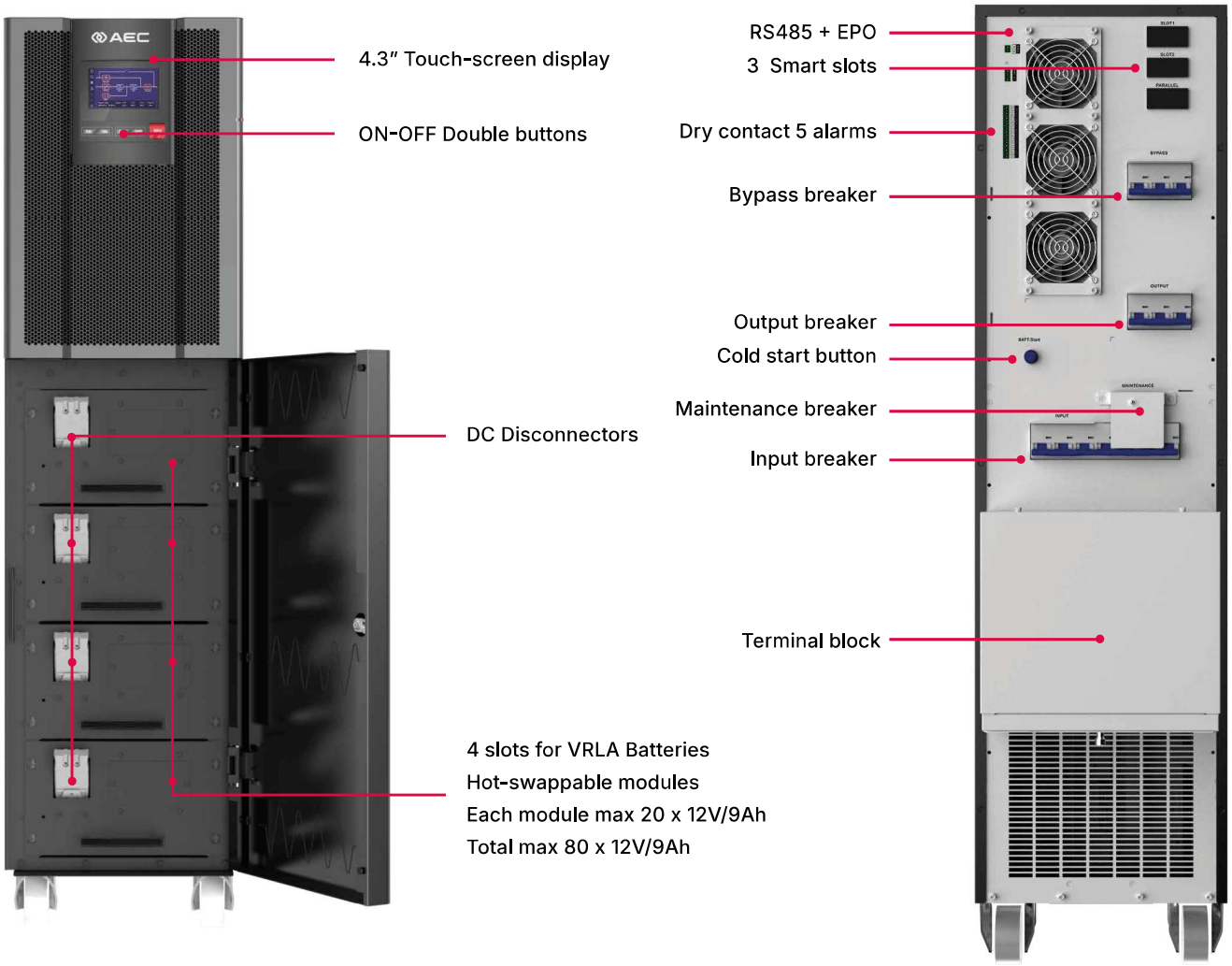
Hot-swappable batteries

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

UPS 3 Phase with hot-swappable internal VRLA

UPS AUREON Autonomy backup runtime chart		
Load level	50%	100%
Aureon 10kW 40x9Ah	24 Minutes	9 Minutes
Aureon 10kW 60x9Ah	40 Minutes	17 Minutes
Aureon 10kW 80x9Ah	57 Minutes	24 Minutes
Aureon 20kW 60x9Ah	17 Minutes	6 Minutes
Aureon 20kW 80x9Ah	24 Minutes	10 Minutes
Aureon 30kW 80x9Ah	14 Minutes	5 Minutes

Details



AUREON 10-20-30kVA

Touch screen Smart Display

Clear Display: A 4.3-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.

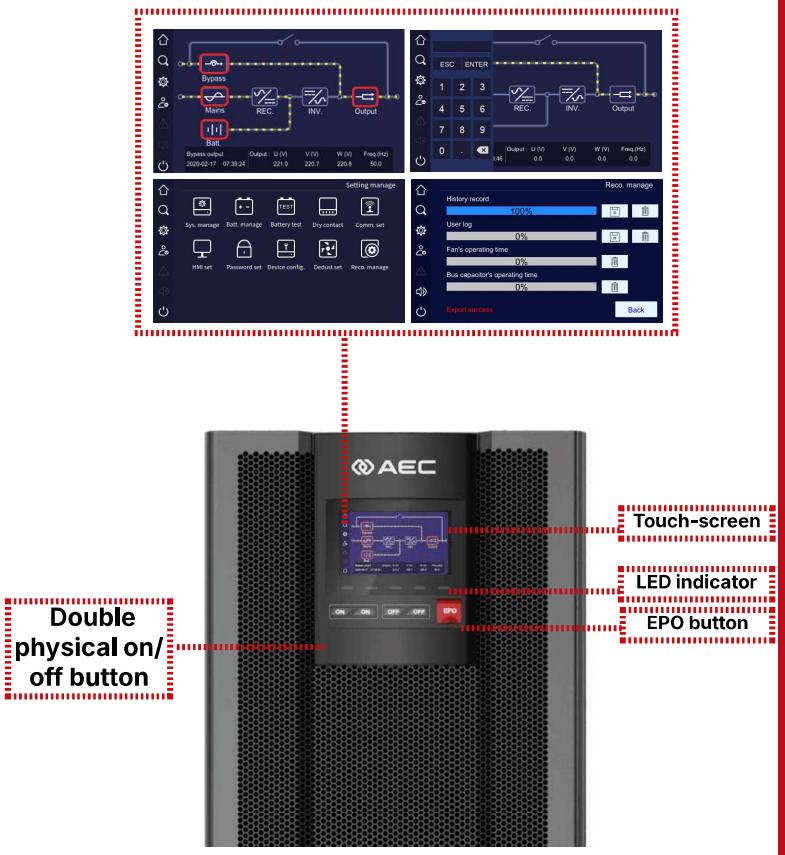
Event History: The UPS logs up to 10,000 events, downloadable via the built-in USB port.

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.



4.3 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.

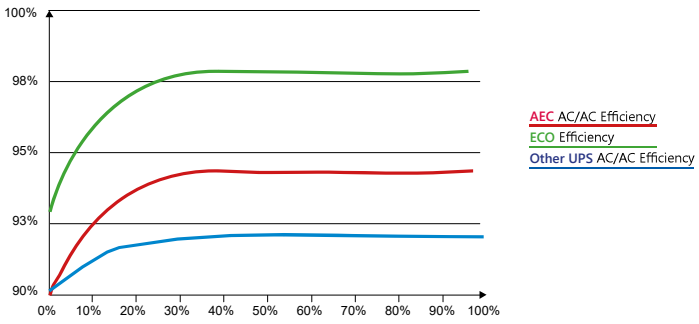
This small enhancement dramatically improves performance:

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 94%, especially in new demanding critical power applications.



Standards and certifications

Scan the QR code to download the User Manual AUREON 10-30kVA!

Technical specifications

MODELS	AUR10-XXX9A	AUR20-XXX9A	AUR30-XXX9A
Input			
Voltage (VAC)	208/220Vac		
Frequency (HZ)	40~70Hz		
Input range (VAC)	120-156 linear derating, 156V-268V at full load		
Power factor	≥0.99		
THDI	≤3%		
Phase	3W+N+G		
Socket - Plug	Socket C14 + 5ft input cable to C15P		
Output			
Power capacity (kW)	10	20	30
Power factor	1		
Voltage (VAC)	190/200/208±1%(L-L) ±1%		
Frequency (HZ)	50/60±0.1		
THD	≤1%THD, linear load; ≤4%THD, non-linear load		
Waveform	Pure sinewave		
AC/AC Efficency	AC\AC = 94%, ECO-Mode = 98,5%		
Overload	<105% continues, 105%~110% 60mins, 110%~130% load for 10 min, 130%~150% load for 1 min, 150%~200% load for 200ms		
Socket - Plug	Terminal block		
Battery			
Voltage (VDC)	240Vdc		
VRLA Slots	4 hot-swappable slots		
Battery per slot	20 pcs 12V/9Ah per slot, max 80 pcs batteries 12V/9Ah		
Max. current Charger (A)	2~20 settable (default is 10)		
Other specifications			
Recharging time	< 6 Hours		
Communications	RS485+EPO+Dry contact (1 input, 5 output)+2 slots (SNMP and Parallel Optional)		
Noise (DB)	<65dB		
Temperature (°F - °C)	-20°C~50°C -4°F~122°C		
Umidity	<95%		
Dimensions (W*D*H) in	15*39*49.2 in		
Dimensions (W*D*H) cm	38*99*124 cm		
Weight (Lb - Kg) w/o batt	207 Lb - 94 Kg	227 Lb - 103 Kg	241 Lb - 109 Kg
Certifications			
Standards	UL 1778, Performance : IEC 60240-3, UL 9540 for LFP Module		

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

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