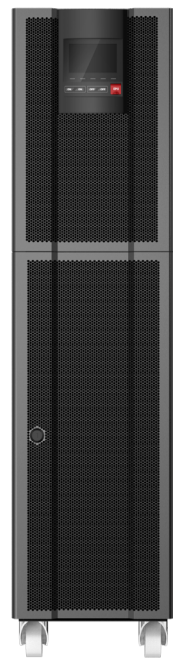


Eon Series UPS

| 10~30kW |



Eon Series UPS 10-30kW



Key Features

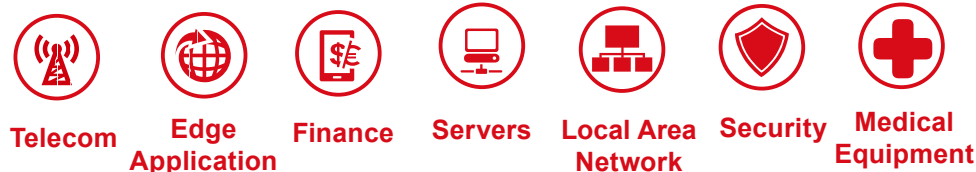
- » **Modular hot-swappable battery design**
- » **Electrical and physical double isolation design**
- » **AC/AC efficiency up to 94%**
- » **Output power factor 1.0**
- » **High ambient temperature up to 50 °C**

Reliable and Flexible Uninterruptible Power Supply (UPS) for Lowest TCO and Highest Performance.

Eon 10-30K is an efficient dual conversion online UPS that is easy to operate and maintain, providing you with reliable backup power support.

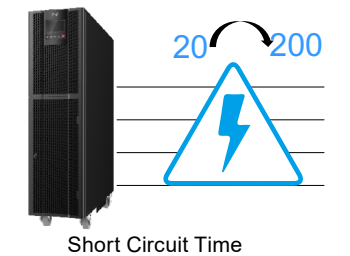
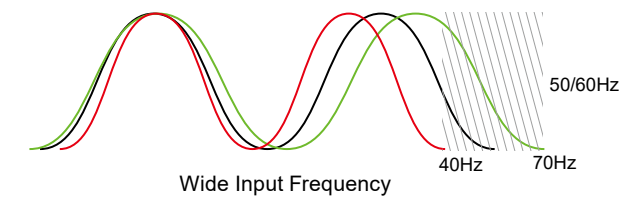
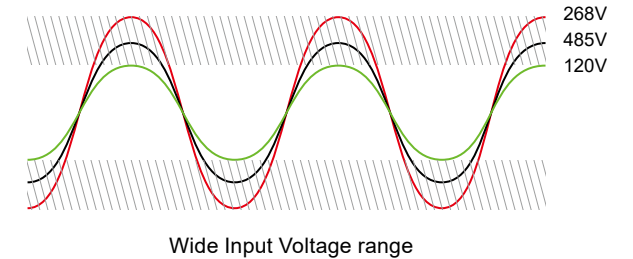


Typical Applications:



High Reliability

- **Wide input voltage** range 120-268V (L-L) and **wide input frequency** range 40-70Hz with high grid adaptability and prolong battery life.
- **Separate internal air channel** which hot air drives directly towards heat sink without distressing the PCB's and other internal sensitive components, improving the components service life and UPS reliability.
- The most advanced and dual DSP control prevents single failure point and increase performance.
- **High overload capacity** on inverter for 105% load long run and 130% load 10 mins and bypass 130% load long run.
- **Electrical and physical double isolation design**, reduce the fault scope to an effective space without diffusion.
- **Lightning and surge protection** design which help UPS to sustain from high surge peak voltage.
- Battery reverse connection protection to make sure the system reliability.
- **Standard conformal coating** to all PCB boards, protect electronics from environmental effect such as dust, salt spray and corrosion.
- Cold start function which allow UPS start on battery when grid isn't available.
- Dual input design which supports utility input and bypass input can be connected as single source or separated source.

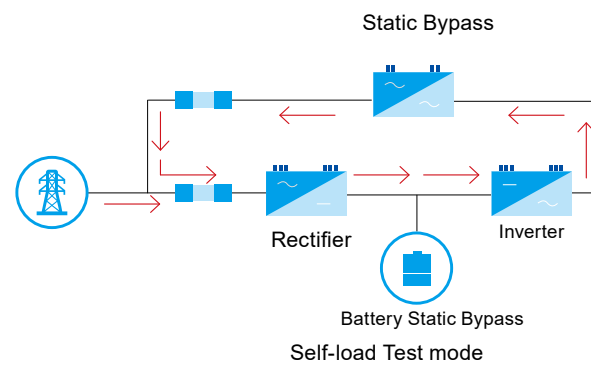
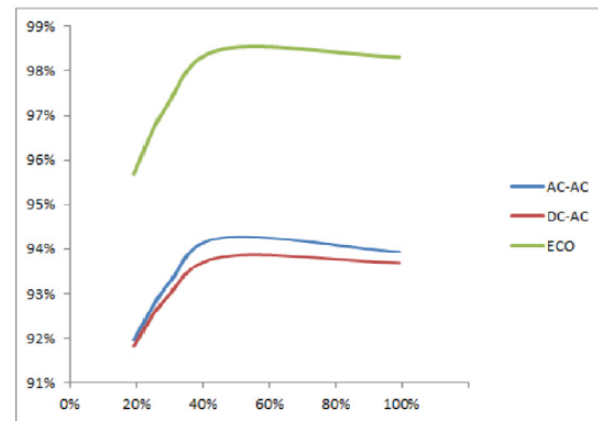


Conformal Coating

Eon Series UPS 10-30kW

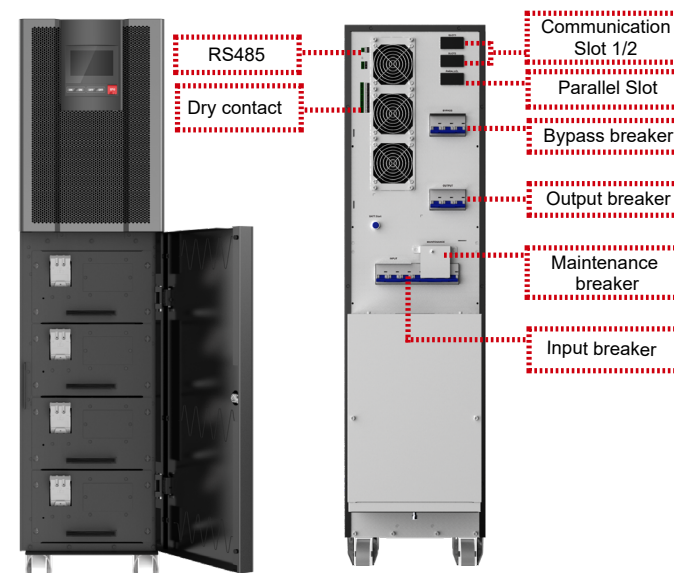
Green Power

- **Latest generation IGBT and three level technology**, Low harmonic, high efficiency, effectively energy-saving.
- **High power density design**, which small footprint on 30KVA only 0.38m² for saving installation space.
- High input power factor up to 0.99 and **low Input THDi: < 3.0%** at full load, much less grid pollution and costs.
- **AC/AC efficiency up to 94%** to reduce heat dissipation and to limit power consumption costs.
- **ECO mode efficiency up to 98.5%** lead to significant cost reduction.
- **Self-load test function**, easy debugging and easy onsite test during commissioning, before it is connected the real load, without using costly temporary loads, cabling and breakers for energy saving.



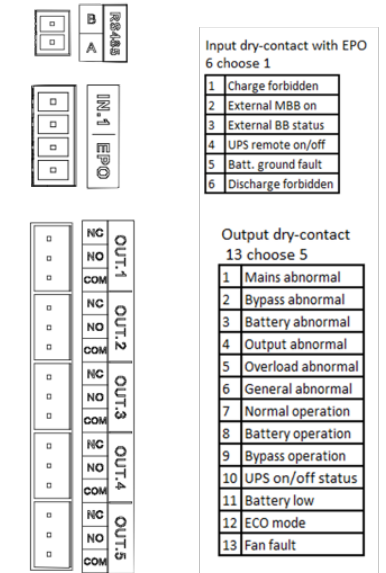
Flexibility Design

- **Build-in Hot-swappable battery module**, make sure high density and easy for maintenance.
- 2 Slots for communication, available for mutiple way of communication.
- **Optimize installation and easy service** architecture design minimizes the MTTR and optimizes serviceability and comes equipped with wheel which is easy for movement and relocation.
- **Parallel slot** design which allow up to 4 units parallel at site for capacity or N+X redundancy.

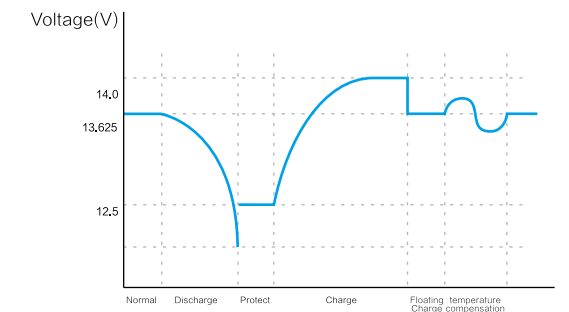


Intelligent Management

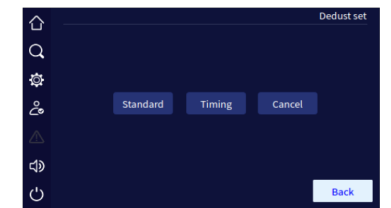
- Multiple method of communication which provide RS485, dry contact, SNMP together with Modbus protocol to compatible with most management system.
- Smart **programmable dry contact** which have 1 input dry contact and 5 output dry contact, which input dry contact have more than 6 functions and output dry contact have 13 functions allows to settable at site.
- **Wide DC voltage** range and settable from ± 96 to ± 120 (16~20 pcs).
- Intelligent battery charging with 3 stage methods for VRLA battery to prolong the service life of batteries.
- **Battery Static delay** function provide better battery care, to prevent overcharging when battery is full. Battery have slow self-discharge even if the battery does not discharge to the load, the battery voltage will slowly decrease. UPS could set duration for days to recharge the battery as full level to make sure **maximum life time**.
- **Key components pre-alarm** function which pre-alarm the system fault and remind service for key components, like capacitor, fan.
- **Self-dedusting** function which allow technician set the time duration for UPS to clean the dust itself for saving the preventive service time.
- Frequency converter function (60Hz to 50Hz or 50Hz to 60Hz)



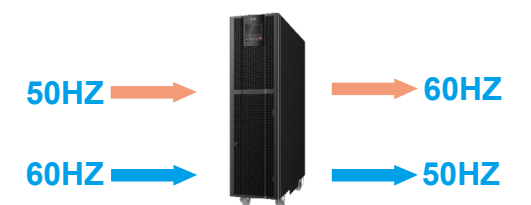
Programmable Dry Contact



Intelligent Charging for VRLA



Self Dedust Function

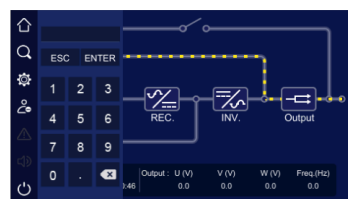
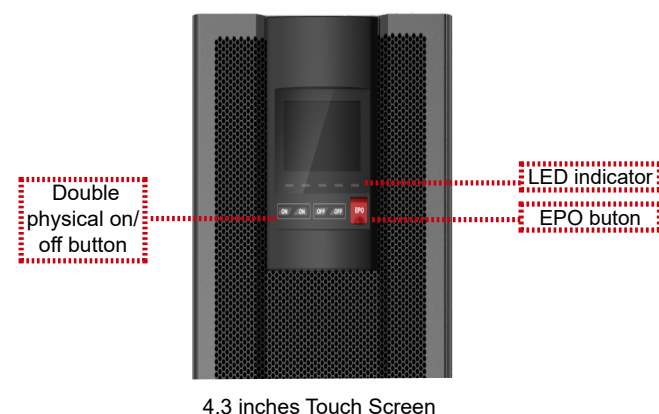


Frequency Converter Mode

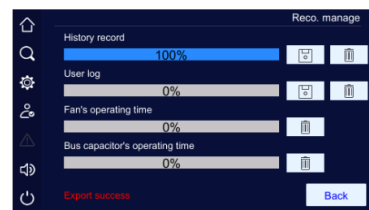
Eon Series UPS 10-30kW

User-friendly Interface

- Colorful **4.3 inches touch screen** with LED Indicators, ensure comprehensive and visualized information display.
- User-friendly **double physical ON/OFF button** design to avoid false operation.
- User-friendly graphical interface with single-line mimic diagram showing system status.
- High security access with separate password levels for users, technician and service engineers.
- Large data storage capacity, 10000pcs events logs.
- Easy update for display firmware.



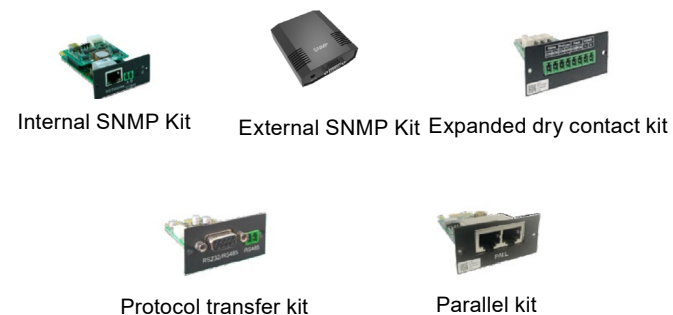
Different Level Password



Record Management

More Options

- Parallel kit
- SNMP slot
- Dust filter kit
- Expanded dry contact kit
- Protocol transfer kit
- Intelligent Battery Monitoring System
- Battery charge temperature compensation



Technical Specifications

MODEL	Eon10	Eon20	Eon30
INPUT			
Input Voltage (Vac)	208/220(3W+N+G)		
Frequency (Hz)	40-70		
Power Factor	≥0.99		
Input Voltage Range	120V-156V linear derating, 156V-268V at full load		
THDi	<3%		
Dual Mains Input	Yes (default single mains input)		
OUTPUT			
Capacity (kW)	10	20	30
Output performance classification(according to IEC 60240-3)	VFI-SS-111		
AC/AC Efficiency (Max.)	94%		
Power Factor	1.0		
Voltage (Vac)	190/200/208/220±1%(L-L) ±1% (default is 208)		
Frequency (Hz)	50/60±0.1 (battery mode)		
THDv	THD <1% (linear load), THD <4% (nonlinear load)		
Overload	<<105% continues, 105%~110% 60mins, 110%~130% load for 10 min, 130%~150% load for 1 min, 150%~200% load for 200ms		
ECO Mode	Yes		
ECO Efficiency	99%		
BATTERY VRLA			
Battery Cell Capacity(Ah)	9		
Battery Voltage (Vdc)	±120 (±96~±120, ±48 cells~±60 cells, 2V/cell)		
Internal Battery String Quantity	Standard 2 strings (1-4 selectable)	Standard 3 strings (1-4 selectable)	Standard 4 strings (1-4 selectable)
Charging Current (A)	1-10 settable		1-20 settable
COMMUNICATION			
Communication Interface	RS485+EPO+Dry contact(1 input, 5 output)+2 Slot+SNMP(optional)		
Display	4.3 Inches Touch Screen		
ENVIRONMENTAL			
Noise (dB)	<60		<65
Working Temperature (°C)	-5~50(40~50 derating)		
Relative Humidity	0 ~ 95%, no condensation		
DIMENSION AND WEIGHT			
Dimension (W×D×H)(mm)	378×993×1250mm(14.9*39.1*49.2in)		
Package dimension(W×D×H)(mm)	456x1110x1390mm(18x55x438in)		
Weight (kg)*	211kg(465lb)	276kg(609lb)	340kg(750lb)

• Specification is subject to change without prior notice.
* Without battery

Reliable • Flexible • Responsible

Kehua Tech

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