



**UNI JET**

**АЕС IST7 (50-200 кВА) - брошюра на продукцию. Юниджет**

Постоянная ссылка на страницу: <https://www.uni-jet.com/catalog/ibp/on-line-ibp/aec-ist7/>



# SERIES IST 7

POWER RANGE  
50-200kVA



kW = kVA

96%  
Efficiency



## UPS ONLINE THREE PHASE

The UPSs **three-phase IST7** (50-200kVA) are the range of **expandable online UPS** three-phase of AEC, double conversion tower UPS in powers starting from 50kVA up to 200kVA. The UPS IST7 series uses a **centralized modular design**, enabling future expansion of the UPS.

IST7 UPSs are available in **two sizes**, from 50kVA to 120kVA and from 160kVA to 200kVA. Thanks to the inverter's **3 IGBT levels**, the UPS guarantee efficiency up to 96% and a unitary output power factor. They are directly configurable from the display, **wide flexibility** in the number of batteries and **high overload capacity**. The innovative self-cleaning function reduces the risk of dust accumulation on the cards. The system includes the **free contact card** for alarms.

### IDEAL FOR



HEALTH CARE



INDUSTRY



TRANSPORT



SERVER



DATA CENTER

THREE PHASE UPS

## MAXIMUM POWER

- Three-phase double conversion online UPS with 3-level IGBT rectification technology and can be switched on site from 50 up to 200kVA;
- Transformerless output power factor 1 saving on energy consumption and saving a lot of space in server rooms;
- Double conversion online UPS with modular design, efficiency over 96%, accepts unbalanced loads up to 100%.

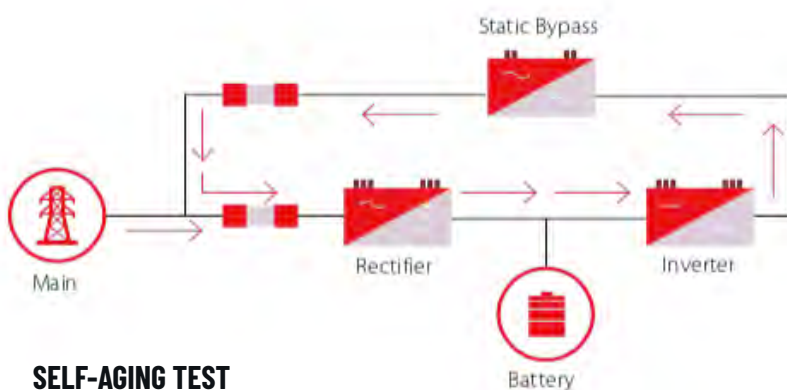


Compare to normal size in the market



## SMARTER OPERATION

- Modular design allows for faster and safer maintenance and repair operations, thus reducing all labor costs by 50%;
- Full digital interconnection, advanced dual DSP control technology, fast error self-diagnosis, full redundancy coverage, no single point of failure;
- Innovative self-cleaning function that periodically expels dust from the module reducing breakdowns by 30%. Built-in black box that regularly records waveforms on the display.



SELF-AGING TEST



**BEST THREE PHASE  
UPS 2020**

## ECONOMIC SAVING

The system has a **touchscreen display** with powerful functions, an intuitive interface, easy-to-use protection functions and visual and audible alarms. Thanks to a built-in black box, the UPS periodically records the waveforms generated passing through the device, greatly simplifying maintenance and solving any problems.

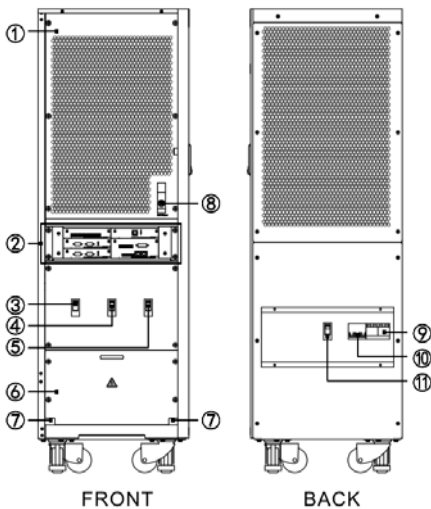
Let's take an example of a 120kVA AEC UPS working at full load H24, comparing it with a competitor's UPS with standard 92% efficiency:



- **Daily saving energy:**  
 $(120\text{kVA} \cdot 1 \cdot 96\% - 120\text{kVA} \cdot 0.8 \cdot 92\%) \cdot 24 \text{ hours} = 645.12 \text{ kWh};$
- **Daily saving money:**  
 $645.12 \text{ kWh} \cdot 0.1\text{€}/\text{kWh} = 64.512\text{€};$
- **Yearly saving energy:**  $645.12 \text{ kWh} \cdot 365 \text{ days} = 235.468,8 \text{ kWh};$
- **Yearly saving money:**  $235.468,8 \text{ kWh} \cdot 0.1\text{€} =$

**23.546,88 € per year**

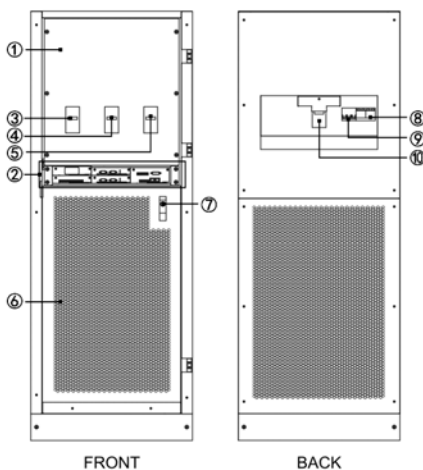
### IST7 50-120KVA



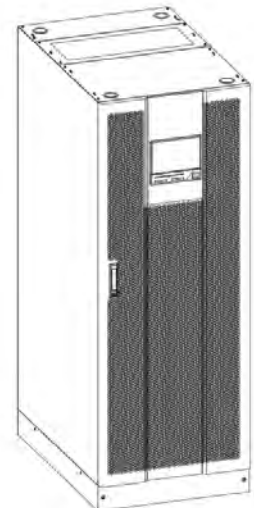
1. TOP COVER PLATE;
2. CONTROL UNIT;
3. POWER BREAKER;
4. BYPASS BREAKER;
5. OUTPUT BREAKER;
6. WIRING COVER PLATE;
7. WIRING HOLES OF COMMUNICATION WIRES;
8. BATTERY SLOW START BOTTON;
9. SURGE PROTECTION DEVICE (OPTIONAL);
10. SURGE PROTECTION BREAKER (OPTIONAL);
11. MAINTENANCE BUPASS BREAKER.



### IST7 160-200KVA



1. WIRING COVER PLATE;
2. CONTROL UNIT;
3. POWER BREAKER;
4. BYPASS BREAKER;
5. OUTPUT BREAKER;
6. BOTTOM COVER PLATE;
7. BOTTOM START BUTTON;
8. SURGE PROTECTION DEVICE (OPTIONAL);
9. SURGE PROTECTION BREAKER (OPTIONAL);
10. MAINTENANCE BUPASS BREAKER.



## TECHNICAL SPECIFICATIONS

MODELS	IST7050	IST7080	IST7100	IST7120	IST7160	IST7200
<b>INPUT</b>						
VOLTAGE (VAC)	380/400/415 (138~485 L-L)					
FREQUENCY (HZ)	40~70					
BYPASS VOLTAGE (VAC)	380/400/415: -20%~+15%					
POWER FACTOR	≥0.99					
THDI	≤3%					
PHASE	3 $\phi$ 4W+PE					
<b>OUTPUT</b>						
CAPACITY (KVA)	50	80	100	120	160	200
POWER FACTOR	1					
VOLTAGE (VAC)	L - N: 220/230/240±1% L - L: 380/400/415±1%					
FREQUENCY (HZ)	50/60±0.1 (battery mode)					
PHASE	3 $\phi$ 4W+PE					
UNBALANCE 3-PHASE VOLTAGE STABILIZATION WITH FULL LOAD	≤2%					
WAVEFORM	Pure sine wave, THD<1% at linear					
EFFICIENCY	96%					
OVERLOAD	105%~115% load for 60mins; 116%~130% load for 10mins; 131%~150% load for 1min; >150% load for 200ms					
<b>BATTERIES</b>						
BATTERY VOLTAGE (VDC)	±192/±216 (±180/±204/±216/±228/±240 settable)					
BATT TYPE	External					
CHARGING CURRENT (A)	1-30			1-40		
<b>OTHERS</b>						
COMMUNICATION INTERFACE	RS485, MODBUS, dry contacts (RS232, SNMP, expend dry contact card are optional in slot)					
DISPLAY	Touch screen+LED					
ALARM	AC input abnormal, low battery, overload, failure					
PROTECTION	IP21, overload, over temperature, battery low voltage, output over/low voltage					
NOISE (DB)	<65					
WORKIN TEMPERATURE (°C)	0~40					
RELATIVE HUMIDITY	0~95%					
DIMENSION (W×D×H)(MM)	450×840×1400			600×900×1600		
WEIGHT (KG)	180	210	242	320	350	

SPECIFICATIONS OR DESIGNS CAN BE CHANGED AT ANYTIME WITHOUT NOTICE AND CANNOT BE USED TO FORM ANY CONTRACTUAL OBLIGATIONS.