



UPS SERIES IST 7



3:1 3:3

Power from 10kVA to 40kVA



kW = kVA

97%
Efficiency

UPS ONLINE THREE-PHASE | SINGLE PHASE

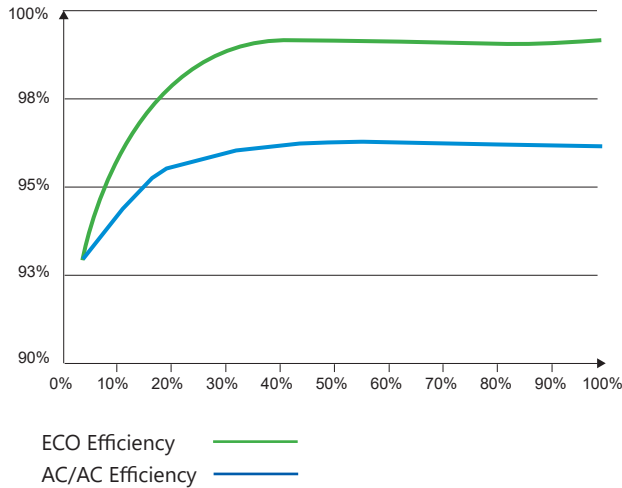
The **IST7 three-phase UPS** (10-40kVA) are AEC's three-phase online UPS range, double conversion tower UPS in powers starting from 10kVA up to 40kVA. The UPS IST7 series adopts the most innovative **3-level IGBT** technologies, ensuring efficiency up to 97% and a unitary output power factor.

IST7 **10kVA and 20kVA** can be configured in **1 \ 1 or 3 \ 1 or 3 \ 3** input \ output mode directly from the display, while the **30kVA and 40kVA** models can be configured **3 \ 1 or 3 \ 3**. The three-phase UPS are available in version with **internal batteries** or **external battery cabinet**. The UPS includes the free contact card for alarms and a manual bypass disconnecter to facilitate maintenance.

PRINCIPALS FEATURES

EFFICIENCY E FLEXIBILITY

- Output power factor equal to 1;
- AC \ AC efficiency up to 97%;

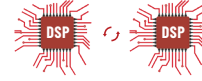


- Innovative three-level IGBT technology integrated in the inverter section;
- Modifiable input and output:
 - 1:1, 3:1, 3:3 (10-20kVA)
 - 3:1, 3:3 (30-40kVA);
- Maximum capacity of built-in batteries:
 - from 16 up to 40 12V 9Ah monoblocks (10-20kVA);
 - from 48 up to 80 12V 9Ah monoblocks (30-40kVA);

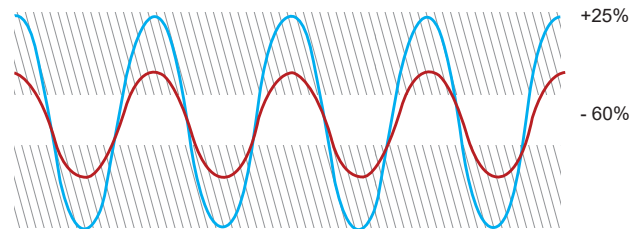
MULTIPLE CONFIGURATIONS

- TOUCH-SCREEN computerized screen with Linux operating system and color graphic interface;
- 10kVA and 20kVA versions with input and output configurable from display in single-phase and \ or three-phase (1: 1,3: 1,3: 3);
- 30kVA and 40kVA versions with configurable output from display in single-phase or three-phase (3: 1,3: 3);
- Display available in 7 languages;

- Advanced control with double redundant DSP;

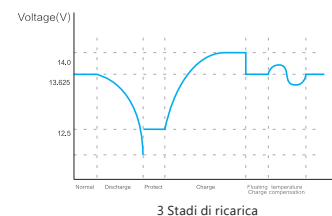


- ECO mode with efficiency up to 99%, configurable from the display;
- Maximum output tolerance, ability to operate with 100% unbalanced loads;
- Fully tropicalized electronic cards;
- Double input with wide tolerance, compatible with diesel generators;



Single-phase and three-phase power range

- Ultra Wide Battery Range:
 - 10kVA version minimum 16 up to 40 for monoblocks series ($\pm 96 \sim \pm 240\text{Vdc}$)
 - 20-30-40kVA version minimum 24 up to 40 for monoblocks series ($\pm 144 \sim \pm 240\text{Vdc}$);
- ECO mode with efficiency up to 99%, configurable from the display;
- Advanced 3-stage battery charging and maintenance system;



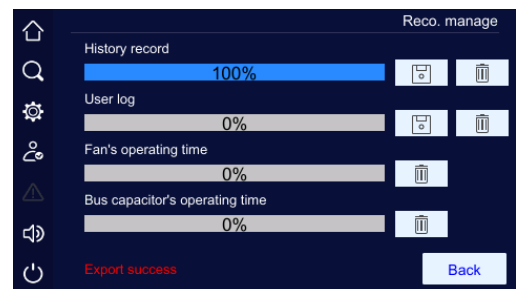
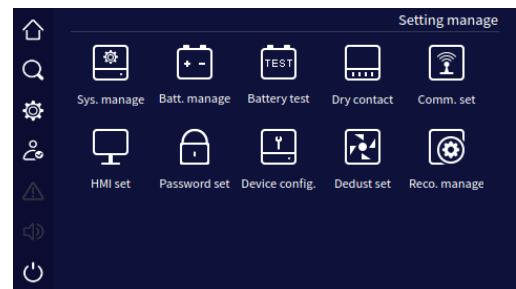
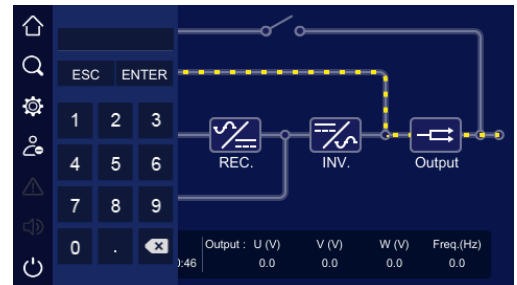
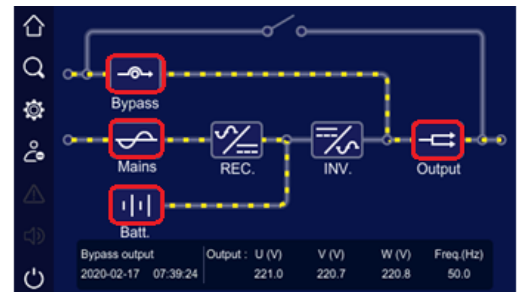
- Shared batteries for parallel systems, a single battery pack for two N + 1 UPSs;
- Possibility of parallel installation N + 1 (redundant or power) up to 10 units.

SETTINGS FROM DISPLAY

- Access to the menu via different password levels (User, Technician and Manufacturer);
- Configuration for input, output, bypass, batteries, communications, language and operating modes;
- Periodic self-cleaning function, to expel impurities and reduce the risk of failure;
- Large memory up to 10,000 events downloadable via the USB port integrated in the UPS;
- Advanced communication for installation and operation with diesel generators;
- Alarms from clean contact card, configurable from display;



Display 4.9" Inches



STANDARD AND COMMUNICATIONS

- Clean contact card with 5 alarms;
- Maintenance bypass switch;
- EPO emergency release button on the front, remote clean contact on the back;
- Battery start-up by means of a specific button;
- Kit for 1: 1 and \ or 3: 1 installation (optional);
- Integrated external battery connector;
- Integrated RS485 and Modbus communication port;
- Wiring arrangement for internal batteries:
 - from 16 up to 40 12V 9Ah monoblocks (10-20kVA)
 - from 48 up to 80 12V 9Ah monoblocks (30-40kVA);
- Protection against reverse polarity of the batteries;
- SNMP network card for remote control and monitoring (optional);
- NC \ NO dry contact card for further 12 alarms (optional).

TECHNICAL SPECIFICATIONS

| MODELS | IST7-10-32X9 IST7-10 | IST7-20-36X9 IST7-20 | IST7-30-72X9 IST7-30 | IST7-40-72X9 IST7-40 |
|----------------------------------|--|------------------------------------|---------------------------------|-------------------------|
| INPUT | | | | |
| VOLTAGE (VAC) | 80-280 (L-N) / 138-485 (L-L) | | | |
| FREQUENCY (HZ) | 40~70 | | | |
| VOLTAGE BYPASS (VAC) | 380/400/415: -20%~+15% | | | |
| POWER FACTOR | ≥0.99 | | | |
| THDI | ≤3% | | | |
| PHASES | 3:3 / 3:1 / 1:1 | | 3:3 / 3:1 | |
| OUTPUT | | | | |
| POWER (KVA) | 10 | 20 | 30 | 40 |
| POWER FACTOR | 1 | | | |
| VOLTAGE (VAC) | L-N: 220/230/240±1% L-L: 380/400/415±1% | | | |
| FREQUENCY (HZ) | 50/60±0.1 | | | |
| THD | THD<1% (linear loads), THD <3% (non- linear loads) | | | |
| WAVEFORM | Sinusoidal pure, THD<1% linear | | | |
| EFFICIENCY | 97% | | | |
| OVERLOAD | 110% Overload for 60mins; 130% Overload for 10mins; 155% Overload for 1min; >155% Overload for 200ms; | | | |
| BATTERIES | | | | |
| BATTERY VOLTAGE (VCC) | ±96~±240 configurable | ±144~±240 configurable | ±144~±240 configurable | ±144~±240 configurable |
| BATTERIES CONFIGURATION STANDARD | 32*9AH/12V | 36*9AH/12V | 72*9AH/12V | 72*9AH/12V |
| MAX. CHARGING CURRENT (A) | 1-10 (configurable) | | 1-20 (configurable) | |
| OTHER SPECIFICATIONS | | | | |
| COMMUNICATIONS | RS485, MODBUS, Free contact card (RS232 e SNMP optional) | | | |
| DISPLAY | Touch screen+LED | | | |
| ALARMS | Low batteries, Anormal input, Overload, Block/Fault ecc. | | | |
| PROTECTION | Low batteries, Overload, Short-circuit, Over-temperature ecc. | | | |
| NOISE (DB) | <55 | | | |
| TEMPERATURE (°C) | -5~40 | | | |
| HUMIDITY | 0~95% | | | |
| DIMENSIONS (L×W×H) (MM) | 250×755×880 | | 300×785×1250 | |
| WEIGHT (KG) | 132 with batteries - 50 without | 140 with batteries - 50 without | 270 with batteries - 85 without | |
| CERTIFICATIONS | | | | |
| STANDARDS | CE (Reference standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2; Classification IEC EN 62040-3) | | | |

ALL INFORMATION IS INDICATIVE, MAY BE MODIFIED BY AEC AT ANY TIME AND DOES NOT CONSTITUTE CONTRACTUAL OBLIGATIONS.

YOUTUBE VIDEO TUTORIAL



ASSISTANCE 24\7 ON ALL SOCIAL NETWORK

