



AEC ITALY CATALOG

2023





UPS SERIES IST 7T



3:3

Power from 80kVA to 600kVA

UPS THREE-PHASE WITH INTEGRATED TRANSFORMER

The **IST7 T Transformer based UPS** (80-600kVA) are AEC's range of **three-phase transformer integrated online UPS**, double conversion tower UPS in powers starting from 80kVA up to 600kVA. The UPS IST7 series uses a **isolation transformer on inverter output**, ensuring maximum reliability.

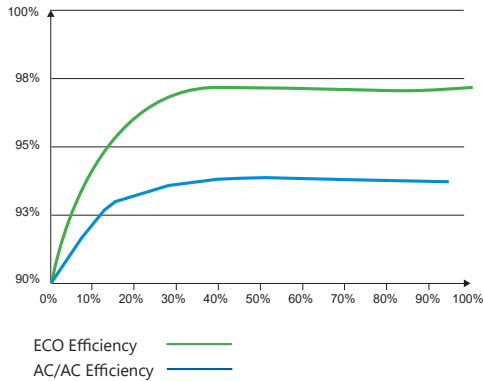
IST7 T UPSs are available in different powers 80kVA, 100kVA, 120kVA, 160kVA, 200kVA, 250kVA, 300kVA, 400kVA, 500kVA, 600kVA. Thanks to the **inverter's 3 IGBT levels**, the UPS guarantee efficiency up to 94% and a output power factor equal to 0.9 They are directly configurable from the display, with **ample flexibility** in the number of batteries and **high overload capacity**. The innovative self-cleaning function reduces the risk of dust accumulation on the boards. The system includes the free contact card for alarms.

UPS TRANSFORMER BASED

PRINCIPAL FEATURES

EFFICIENT AND RELIABLE

- Output power factor = 0.9;
- Maximum AC \ AC efficiency up to 94%;



- The output isolation transformer provides high reliability to adapt different harsh industrial environments and protects the critical loads.

- Advanced control with double redundant DSP;



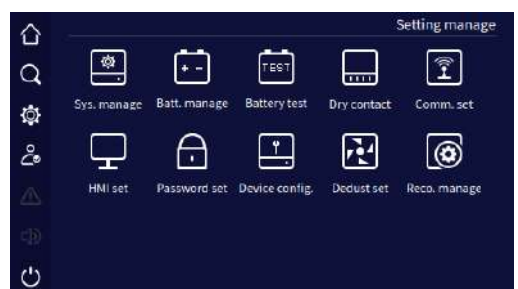
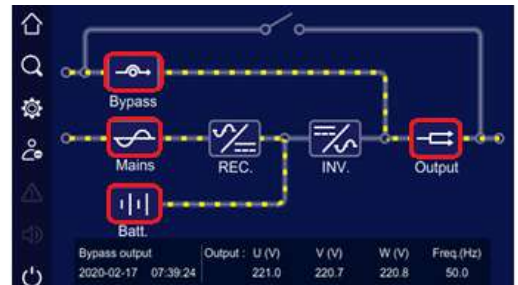
- Fully tropicalized electronic cards;
- Display available in 7 languages;
- Intelligent fans with high efficiency cooling, multiple modes to control their speed, extend their life and improve their efficiency.



Automatic fan control

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 breakdowns;
- 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;
- Periodic graphic recording of inverter, rectifier and control waveforms.



POWER CAPACITY TRANSFORMER SYSTEM

IST7-T
80KVA



IST7-T
100-120-160KVA



IST7-T
200-250KVA



IST7-T
300-400KVA



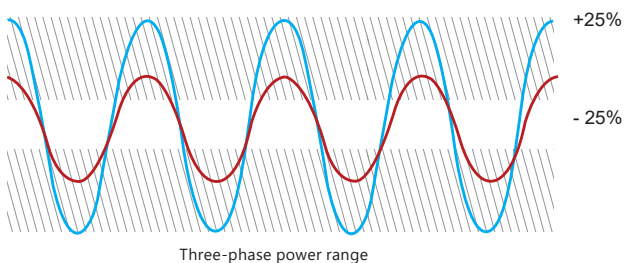
ADVANCE DESIGN AND TECHNOLOGY

- 100% 3-phase unbalance load adapt to different kinds of complex applications;
- Dual airducts design of fer good cooling to protect the key components and extend the service life;
- Dual power supply redundancy;
- Wide input voltage range provides high adaptability to the grid and extend the battery service life;
- Main PCB board with professional electromagnetic shielding improve reliable performance of EMC;
- ECO-mode (98% Efficiency) gives possibility of significant cost reduction and heat emission;
- Bus synchronization control function provides reliable high power for the dual bus application;
- Advanced no-master-slave parallel technology achieves online power expansion and prevent single fault.

IST7-T 500-600KVA



FLEXIBLE, DURABLE AND POWERFULL



- Common battery bank sharing in parallel system (optional);
- 3-stage battery charging mode;
- Self-load test function without load enables onsite commission (optional);
- Common bypass cabinet (optional);
- Support parallel mode up to 4.8MVA.

STANDARD AND COMMUNICATIONS

- Clean contact card with 5 alarms;
- Bypass switch for maintenance;
- EPO emergency release button on the front, remote clean contact on the back;
- Starting from battery by means of a specific button;
- Integrated RS485 and Modbus communication port;
- 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	IST7T-80	IST7T-100	IST7T-120	IST7T-160
INPUT				
VOLTAGE (VAC)	380/400/415			
TENSION TOLERANCES (VAC)	380/400/415±25%			
FREQUENCY INPUT (HZ)	40-70			
BYPASS TENSION (VAC)	-15% (-20%/ -30% optional) ~+15%(+10% /+20% optional)			
POWER FACTOR	≥0.99			
THDI	<5% (Non-linear at full load)			
PHASES	3+N+PE			
BATTERIES (VDC)	348 (360 setting)			
CHARGING CURRENT (A)	10~40A setting			
OUTPUT				
POWER (KVA)	80	100	120	160
POWER FACTOR	0.9 (1.0 optional)			
PHASES	3+N+PE			
WAVEFORM	Sinusoidal			
TENSION (VAC)	L-L:380,400,415 ±1%			
FREQUENCY (HZ)	50/60± 0.2%			
DIFFERENCE 3 PHASES	≤2%, allow 100% unbalance			
THD	THD≤2% (linear load)			
MAX. SYSTEM EFFICIENCY	94%			
PARALLEL	up to 8 units			
OVERLOAD	125% load for 10mins, 150% load for 1 min			
OTHER SPECIFICATIONS				
TEMPERATURE (°C)	0~40			0~40
HUMIDITY	0%~95%			
COMMUNICATION	RS485, MODBUS, Dry Contact Card (SNMP optional)			
NOISE (DB)	< 65			
DIMENSIONS (L×W×H)(MM)	500x800x1600	700×800×1800		
WEIGHT (KG)	520	600	650	825
CERTIFICATIONS				
MARKING	CE			
STANDARDS	IEC EN 62040-1, IEC EN 62040-2, IEC EN 62040-3			

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

TECHNICAL SPECIFICATIONS

MODELS	IST7T-200	IST7T-250	IST7T-300	IST7T-400	IST7T-500	IST7T-600
INPUT						
VOLTAGE (VAC)	380/400/415					
VOLTAGE TOLERANCES (VAC)	380/400/415±25%					
FREQUENCY INPUT (HZ)	40-70					
BYPASS VOLTAGE (VAC)	-15% (-20%/ -30% optional) ~+15%(+10% / +20% optional)					
POWER FACTOR	≥0.99					
THDI	<5% (Non-linear at full load)					
PHASES	3+N+PE					
BATTERIES (VDC)	384 (348/360/372 setting)					
CHARGING CURRENT (A)	10-100A setting					
OUTPUT						
POWER (KVA)	200	250	300	400	500	600
POWER FACTOR	0.9 (1.0 optional)					
PHASES	3+N+PE					
WAVEFORM	Sinusoidal					
VOLTAGE (VAC)	L-L:380,400,415 ±1%					
FREQUENCY (HZ)	50/60± 0.2%					
DIFFERENCE 3 PHASES	≤2%, allow 100% unbalance					
THD	≤1% (linear loads at full load), ≤4% (non-linear loads at full load)					
MAX. SYSTEM EFFICIENCY	94%					
PARALLEL	up to 8 units					
OVERLOAD	125% load for 10mins, 150% load for 1 min					
OTHER SPECIFICATIONS						
TEMPERATURE (°C)	0~40					
HUMIDITY	0%~95%					
COMMUNICATION	RS485, MODBUS, Free contact card (SNMP optional)					
NOISE (DB)	<70					
DIMENSIONS (L×W×H) (MM)	1400×1000×1850		1600×1000×1850		3000×1000×1850	
WEIGHT (KG)	1280	1568	1830	2050	4500	
CERTIFICATIONS						
MARKING	CE					
STANDARDS	IEC EN 62040-1, IEC EN 62040-2, IEC EN 62040-3					

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YOUTUBE VIDEO TUTORIAL



ASSISTANCE 24\7 ON ALL SOCIAL NETWORK





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