

AEC ITALIA CATALOG 2022





UPS SERIES IST 6



3:3

Power from 30kVA to 1.2MVA









MODULAR UPS HOT-SWAPPABLE

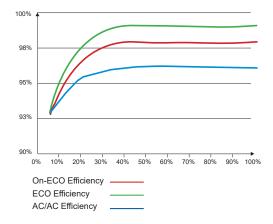
The **IST6 modular UPS** (30-1200kVA) are AEC's range of three-phase modular UPS, UPS with **hot-swappable modules**, in powers starting from 30kVA up to 1200kVA in single structure. The UPS IST6 series adopts a completely modular technology, guaranteeing **constant redundancy** of the continuity system.

Their modularity allows future expansion in power up to 4.8MW. They are available in **four sizes**, up to 120kVA | 200kVA - 300kVA | 600kVA- 800kVA | 1000kVA-1200kVA | with an efficiency of up to 97% and maximum safety. IST6 is designed for **medium and large data centers.** UPS configurable directly from the display, with great flexibility and high overload capacity. The self-cleaning function reduces the risk of dust accumulation on the cards. The system includes the **free contact card** for alarms.

PRINCIPAL FEATURES

MODULAR TECHNOLOGY HOT-SWAPPABLE

- · Output power factor equal to 1;
- Maximum AC \ AC efficiency up to 97% ECO-Mode up to 99% Online ECO-Mode up to 98%;



MAXIMUM SCALABILITY

- Innovative modular N + 1 technology in all components of the UPS system;
- Expandable and hot potential directly on site and from the display;
- Possibility of installation in a single structure up to 1200kW with 12 modules of 100kW;
- Possibility of parallel installation (redundant or power) up to 5MW;
- Batteries in common for systems in parallel, a single battery pack for two UPS N + 1;





- Battery configurations: from 15 to 20 monoblocks (± 180 ~ ± 240Vdc);
- ECO mode with efficiency up to 99%, configurable from the display;
- Advanced control with double redundant DSP;



- Completely 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.



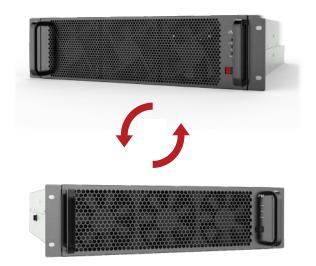




Automatic fan control

REDUNDANT AND HOT REMOVABLE POWER MODULES

- Hot-swappable N + 1 UPS module with power of 30kW per structure up to 120kW;
- Hot-swappable N + 1 UPS module with power of 50kW for structures with maximum expansion up to 200kW, 300kW and 600kW;
- Hot-swappable N + 1 UPS module with 100kW power for structures with maximum expansion up to 800kW, 100kW and 1200kW;
- UPS module including rectifier and inverter with 3-level IGBT technology and redundant components;
- Redundant modules in power and in parallel N + 1 for maximum reliability and versatility;
- Intelligent saving modes with modules automatically activated periodically only in case of energy need.



STRONG, FLEXIBLE AND FUTURE EXPANDABLE STRUCTURES

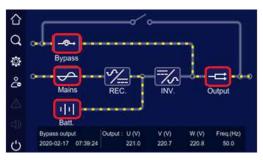


SETTINGS FROM DISPLAY

- 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;



Display 4.9" Inches



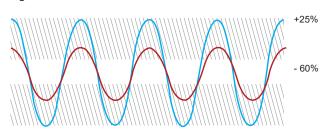






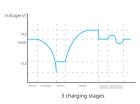
EXCELLENT PERFORMANCE

- Efficiency higher than 95% even at low loads;
- Maximum output tolerance, ability to operate with 100% unbalanced loads;
- Double input with wide tolerance, compatible with diesel generators;



Single-phase or three-phase power supply range

 Advanced 3-stage battery charging and maintenance system;



- Redundant and hot extractable power modules (rectifier and inverter);
- · Centralized bypass module with battery start button;

FREQUENCY CONVERTER

- 50Hz-60Hz or 60Hz-50Hz converter mode;
- Possibility of disabling the static bypass and the DC power supply of the inverter.

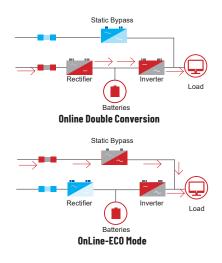


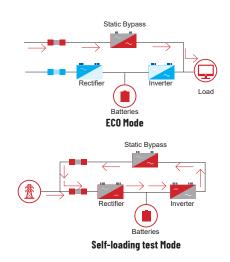


AEC APP FOR MOBILE

- Download the AEC UPS Italia APP and start monitoring and controlling your Modular UPS wherever you are, directly from your smartphone thanks to the AEC SNMP API communication card;
- Possibility of integration with BMS and remote monitoring and control systems of Data-Centers and technological structures with Modbus protocol and API.

OPERATING MODES





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 SPECIFICA	TIONS		
MOD	DELS	IST6120	IST6200-300	IST6600	
POWER N	MODULES	IST630-J	ISTE	650-J	
VOLTAGE (VAC)		380/400/415			
TENSION TOLERANCES (VAC)		L:L 138~485			
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)		±192 (±180~ ±276 settable)			
CHARGING CURRENT (A)		N×10 Maximum (N: number of power modules)			
POWER (KVA)		120	300	600	
POWER FACTOR		1			
PHASES		3+N+PE			
WAVEFORM		Sinusoidal			
TENSION (VAC)		L-L:380,400,415 ±1%			
FREQUENCY (HZ)		50/60± 0.2%			
DIFFERENCE 3 PHASES			≤2 degrees		
THD		≤1% (Linear lo	ads at full load), ≤4% (Non-Linear loads	s at full load)	
1AX. SYSTEM EFFICIENCY		over 97%			
PARALLEL		N+1 redundant			
OVERLOAD		105-115% Overload for 60mins, 116%-130% Overload for 10mins, 131%-150% Overload for 1 min, più di 150% Load transfers on Bypass			
		OTHER SPECIFICATION			
TEMPERATURE (°C)			0~40		
HUMIDITY		0%~95%			
COMMUNICATION		RS485, MODBUS, Free Contact Card (SNMP opzional)			
NOISE (DB)		< 65	<	<70	
POWER MODULE (KVA)		30	Ę	50	
WEIGHT POWER MODULE (KG)		32	3	33	
DIMENSIONS (L×W×H) (MM)		600×86	0×2000	1200×860×2000	
	UPS	180	224	427	
WEIGHT (KG)	Bypass Module	17	25	27	
	Power Module 30/50kW	27	-	33	

	CERTIFICATIONS
STANDARDS	CE (Reference standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2; Classification IEC EN 62040-3)

		TECHNICAL SPE	CIFICATIONS			
	MODELS	IST6800	IST611000	IST6112000		
POWER MODULES			IST6100-J			
VOLTAGE (VAC)		380/400/415				
VOLTAGE TOLERANCES (VAC)		L:L 138~485				
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)		±240 (±180~ ±276 settable)				
CHARGING CURRENT (A)		N×10 Maximum (N: number of power modules)				
POWER (KVA)		800	1000	1200		
POWER FACTOR		1				
PHASES		3+N+PE				
WAVEFORM		Sinusoidal				
VOLTAGE (VAC)		L-L:380,400,415 ±1%				
FREQUENCY (HZ)		50/60± 0.2%				
DIFFERENCE 3 PHA	ASES	≤2 degrees				
THD		≤1% (linear loads at full load), ≤4% (non-linear loads at full load)				
1AX. SYSTEM EFFI	CIENCY	over 97%				
PARALLEL		N+1 ridondant				
OVERLOAD		105-115% Overload for 60mins, 116%-130% Overload for 10mins, 131%-150% Overload for 1 min, più di 150% Load tranfers on Bypass				
TEMPERATURE (°C		0~40				
HUMIDITY		0%~95%				
COMMUNICATION		RS485, MODBUS, Free contact card (SNMP optional)				
NOISE (DB)	ZIA	<70				
POWER MODULE (KVA)		100				
POWER MODULE WEIGHT (KG)		33 1400*1000*2000 1800*1000*2000				
DIMENSIONS (L×W×H) (MM)		1400*1000*2000				
WEIGHT (KG)	UPS	580	650	740		
	Bypass Module	60	80	80		
	Power Module 100kW	55				

CERTIFICAZIONI		
STANDARDS	CE (Reference standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2; Classification IEC EN 62040-3)	



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