



**We are
behind the power**

**UPS | Uninterruptible
POWER SUPPLY**

CATALOG

WWW.AECUPS.COM



COMPANY

AEC SINCE 1968

Founded in 1968, **Allis Electric Co. Ltd** is a public company listed on the Taipei stock exchange since 1994 and has specialized for more than 50 years in the production of **UPS uninterruptible power supplies** for power protection of high-tech industrial and telecommunication plants. The AEC Group is one of the best known producers of uninterruptible power supplies worldwide: online UPS, rack UPS, industrial UPS, single-phase and three-phase uninterruptible power supplies are just some of the types of products sold by AEC.

The choice to be competitive in the global market has led the Group to continuous investments, joint ventures and the creation of offices around the world, developing strategic alliances to achieve excellence and to be known **internationally**.

Its core business is based on products of excellence, which allow enormous savings by providing clean energy while respecting the environment, and 24/7 remote and on-site technical assistance, it sells in more than 80 countries in Europe, Middle East, America and Africa.

HARMONY

AEC is committed to providing green solutions, quality products and excellent service to satisfy all its customers, pursuing harmony between employees and companies.

INNOVATION

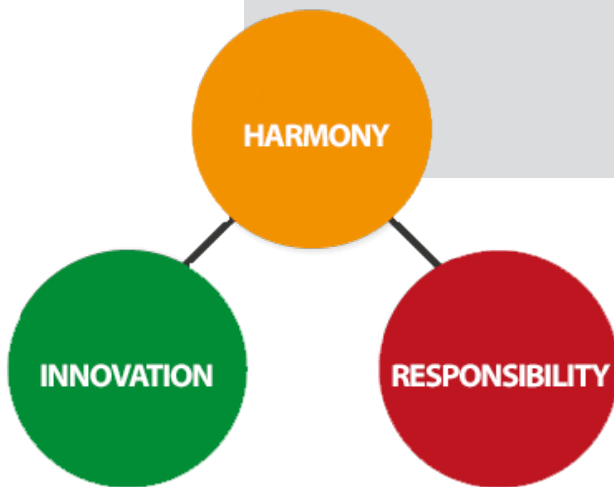
AEC is an innovative company at the forefront in the sector of uninterruptible power supplies and renewable energy and aims to improve the quality of life of citizens and workers.

AEC PHILOSOPHY



Our energies are used to maintain a constant improvement in the quality of our products, as well as to achieve the perfection of production technology. For this reason, AEC has systematically set aside and reinvested 6% of its assets annual income to dedicate to **research and development** to improve the quality of products and develop new ones.

Equally important is the area of engineering techniques and managerial talents as we invest in training and updating at foreign affiliates, participate in technical seminars for the acquisition of new technologies and the improvement of management skills. All products manufactured by AEC are insured by ISO certificates, have a 3-year warranty, ensuring customers reliability over time, and enjoy an excellent quality / price ratio.



AEC NUMBERS



4
FACTORIES



170 MILLIONS \$
REVENUE



631
EMPLOYEES



110 SUPPORT
CENTERS

UNINTERRUPTIBLE POWER SUPPLY



In today's world, where electricity demands are constantly increasing, the **quality and reliability of power lines** are constantly declining everywhere.

Every day we are exposed to growing problems of the electricity grid such as grid failures, instantaneous overvoltages and disturbances of various types from switching on medium/high voltage lines. Any of these events can lead to dire consequences and severe financial losses if you are not properly **prepared and protected**.

Business shutdowns caused by electricity problems cause industries and service companies in damages of billions of Euros every year around the world.

UPS IST SERIES

SINGLE PHASE UPS



IST 1 p. 6

600 - 1500 VA
Line Interactive

IST 3 p. 8

1 - 10 kVA
Tower Double Conversion

IST 3-J p. 12

1 - 10 kVA
Rack Double Conversion

IST 8 p. 16

1 - 3 kVA
Online Double Conversion

THREE - SINGLE PHASE UPS



IST 9 p. 20

10 - 20 kVA
Tower Double Conversion

IST 7 p. 24

10 - 40 kVA
Online Double Conversion

THREE PHASE UPS



IST 7 p. 28

50 - 200 kVA
Online Double Conversion

IST 6 p. 32

25 - 600 kVA
Modular Online

CPSS EN 50171

CPSS p. 36

ACCESSORIES

BATTERIES 12V p. 48

SERIES IST 1

POWER RANGE
600-1500VA



LINE INTERACTIVE UPS

The uninterruptible power supplies Line interactive IST1 (600-1500VA) was developed by AEC specifically to provide a product with an excellent quality/price ratio for a market segment mainly aimed at **private users and small businesses and companies**.

IST1 UPSs are very **easy to use** products, exceptionally robust and absolutely competitive. AEC's Line Interactive IST1 UPSs adopt **digital online technology**, with the load normally powered by a network that is controlled, filtered and stabilized by an internal stabilizer.



ADVANTAGES

- Interactive line with switching time <6 msec;
- Wide tolerance of input voltage fluctuations;
- Starting from batteries without mains present;
- Digital control of the battery status;
- SMT board technology;
- Protection against lightning and high frequency disturbances;
- Protection against short circuits;
- Self-protection of the internal electronics from external events;
- Audible alarm buzzer.



IDEAL FOR



SINGLE PHASE UPS

TECHNICAL SPECIFICATIONS

MODELS	IST1060	IST1080	IST1100	IST1150
NOMINAL POWER	600VA/360W	800VA/480W	1000VA/600W	1500VA/900W
INPUT				
VOLTAGE	from 165 to 275 Vac			
FREQUENCY	40 ~ 70Hz			
OUTPUT				
VOLTAGE	220VAC±15% ±3% battery mode			
MAX RANGE VOLTAGE	15,00%			
FREQUENCY	46 ~ 54Hz			
FREQUENCY BATTERY MODE	50 ± 0.5 Hz			
OVERLOAD	Automatic protection> 150%			
TRANSFER TIME	< 6ms			
BATTERIES				
TYPE	Sealed lead acid			
NUMBER OF BATTERIES	1x12V 7Ah	1x12V 9Ah	2x12V 7Ah	2x12V 9Ah
BACK UP TIME	5 min	5 min	5 min	5 min
RECHARGING TIME UP TO 90 %	< 10 hours			
ALARMS				
BATTERY MODE	Buzzer long			
LOW BATTERY	Buzzer continuous			
OVERLOAD	Buzzer short			
DIMENSIONS AND WEIGHT				
W*D*H (MM)	100 x 287 x 142	100 x 287 x 142	146 x 397 x 205	146 x 397 x 205
NET WITH BATTERIES (KG)	4,5	5	8	11
ENVIRONMENT				
TEMPERATURE	-5 ~ +40° C			
HUMIDITY	< 90%			
NOISE	<45dBA @ 1 mt			

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



1. Input;
2. Output;
3. Fan;
4. Power button;
5. Warning lights.

SERIES IST 3

POWER RANGE
1-10kVA



kW = kVA

95,5%
Efficiency



UPS TOWER DOUBLE CONVERSION

IST3 single-phase UPS (1-10kVA) are AEC's range of Online UPS double conversion and are **UPS tower** in powers starting from 1kVA up to 10kVA. The UPS IST3 series adopts the most innovative **IGBT technologies**, guaranteeing an efficiency of up to 95.5% and an output power factor of unity.

UPS units are available in models with **internal batteries** or combined with **external battery cabinets** for longer runtimes. 6kVA and 10kVA UPS include the manual bypass disconnecter to allow proper maintenance. The **USB card** included and range of products covered by a 3-year warranty. The product complies with the **CEI 0-16 standard**.

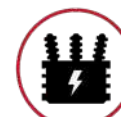
IDEAL FOR



HOME/OFFICE



HEALTH CARE



MT/BT

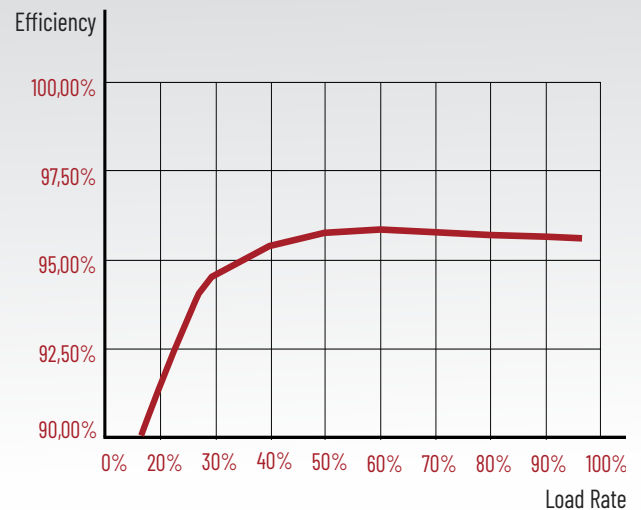


INDUSTRY

SINGLE PHASE UPS

EXCELLENT PERFORMANCE

- Output power factor equal to 1 for a better load capacity at the same power with lower and more convenient initial investment costs;
- Optimized circuit design and integration, anti-interference capability and more stable and efficient performance;
- Intelligent fans with high efficiency cooling, multiple modes to control their speed, extend their life and improve their efficiency.



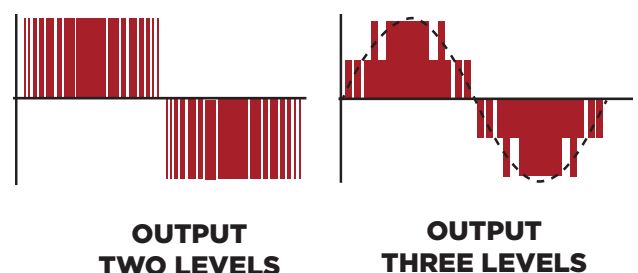
DIGITAL TECHNOLOGY

- Advanced DSP digital control technology for precise and rapid data processing;
- Detection and warning of faults to ensure the safety of the device, also monitoring the temperature of the UPS;
- Large HD screen with graphic interface and simplified display, for an improved and user-friendly user experience.

GREEN POWER

- AC/AC efficiency up to 95.5% with energy savings and low carbon dioxide emissions;
- Input power factor up to 0.996 and low THDi (<3%) with reduced pollution and better use of technology;
- 3-level UPS with IGBT technology and output power factor up to 1.

VOLTAGE WAVEFORM



WIDE FLEXIBILITY

- Ultra wide input voltage range, also adaptable to harsh environments of use;
- Flexible battery configurations and real-time control of their status from the UPS, improving their life cycle and efficiency over time;
- Compact design, minimum footprint of 0.05m, high profitability, easy to install;
- Self-selection of the input frequency (50 / 60Hz), constant monitoring of the mains frequency and at least 10% more output power.

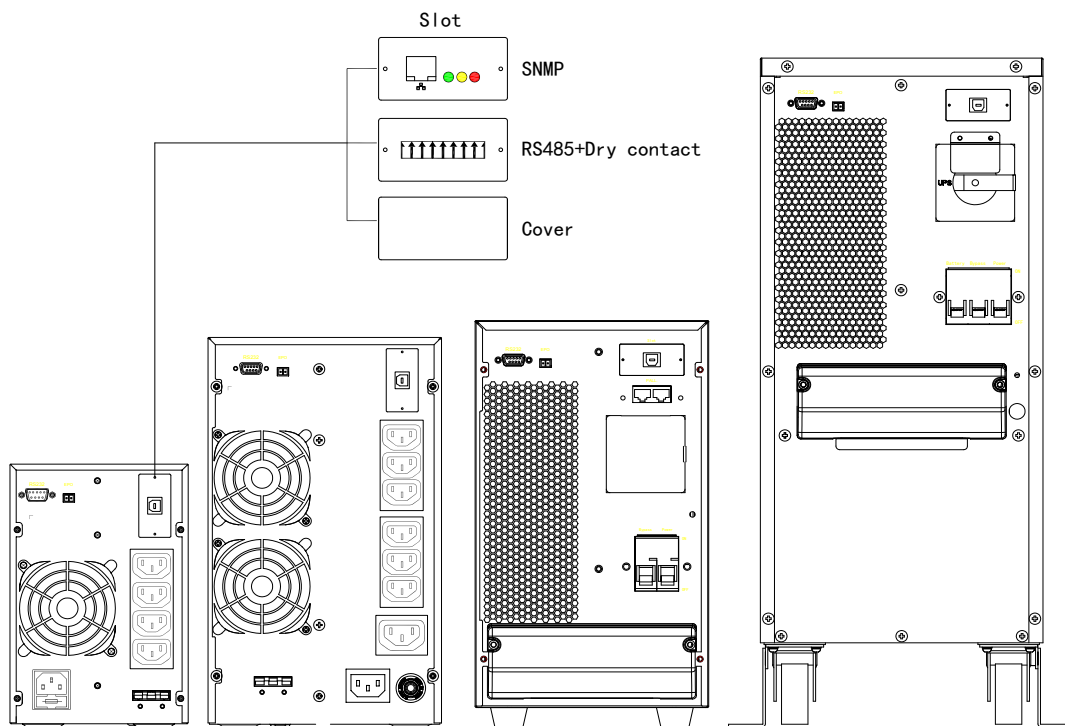


WARNING AND PROTECTION FUNCTIONS

The AEC IST3 series has the function of warning in case of hidden faults in the components to ensure the safety of the device and emits an acoustic and light alarm to prevent blockages. In addition, intelligent computer monitoring and remote UPS control can be implemented with a variety of communication methods for easy remote management.

Standard communication: RS232 and USB.

Optional: SNMP card, potential free contact card, remote EPO.



TECHNICAL SPECIFICATIONS

MODELS	IST3010 IST3010-L	IST3020 IST3020-L	IST3030 IST3030-L	IST3060 IST3060-L	IST3100 IST3100-L
INPUT					
VOLTAGE (VAC)	120~295			80~275	
FREQUENCY (HZ)	50/60±10% (50/60Hz auto-sensing)				
POWER FACTOR	≥0.99				
THDi	<3%				
OUTPUT					
CAPACITY (VA)	1000	2000	3000	6000	10000
MAX. AC/AC EFFICIENCY	92,00%	93,00%	94,00%	95,5%	
POWER FACTOR	0.9 (1.0 optional)				
VOLTAGE (VAC)	208/220/230/240±1% (selectable on display panel)				
FREQUENCY (HZ)	50/60±0.2% (battery mode)				
THD	THD < 2% (linear load); THD < 5% (no linear load)			THD < 1% (linear load); THD < 4% (no linear load)	
OVERLOAD	110% for 2 min. - 120% for 1 min.				
BATTERIES					
VOLTAGE (VDC)	24 or 36/36	48 or 72/72	72 or 96/96	192/192~240	
BATT. TYPE	2×9Ah 12V	4×9Ah 12V	6×9Ah 12V	16×9Ah 12V	16×9Ah 12V
CHARGER CURRENT (A) MAX.	1-4	1-4	1-4	1~8	
OTHERS					
COMMUNICATION INTERFACE	RS232, EPO, USB (slot) (SNMP, RS485+dry contact are optional in slot)				
LCD DISPLAY	AC input & output voltage, frequency, Load level, battery level, temperature; AC mode, battery mode, bypass mode, and fault				
ALARM	Low battery, abnormal AC input, UPS failure, etc.				
PROTECTION	IP21, Low battery, overload, short-circuit and over temperature, etc.				
NOISE (DB)	<50	<55			
TEMPERATURE (°C)	-5~40				
RELATIVE HUMIDITY	0 ~ 95%				
DIMENSION (W×D×H) MM	145×360×225	190×400×330		230×502×553/190×422×337	
WEIGHT (KG)	9.2 or 11.6/4.5	17.7 or 22.4/8.5	22.9 or 27.6/9.2	54.5/10.9	56.2/12.5

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

SERIES IST 3-J

POWER RANGE
1-10kVA



kW = kVA

95,5%
Efficiency

PF=
1.0



VFI
TYPE



PLUG
& LAY

UPS RACK 19" DOUBLE CONVERSION

Uninterruptible power supplies **single-phase IST3-J** (1-10kVA) are AEC's range of online double conversion UPS and they are **Rack UPS** in powers starting from 1kVA up to 10kVA. The UPS IST3 series adopts the most innovative **IGBT technologies**, guaranteeing an efficiency of up to 95.5% and a unitary output power factor.

The UPS are available in models with **internal batteries** or combined with **external battery cabinets** for longer runtimes. Our 2kVA and 3kVA models have the hot-swappable battery pack which makes replacement easy. The 6kVA and 10kVA models have the advantage of occupying only 2U. The **USB card** included and range of products covered by a 3-year warranty. The product complies with the **CEI 0-16 standard**.

IDEAL FOR



HEALTH CARE



INDUSTRY

19"

RACK CABINET



SERVER

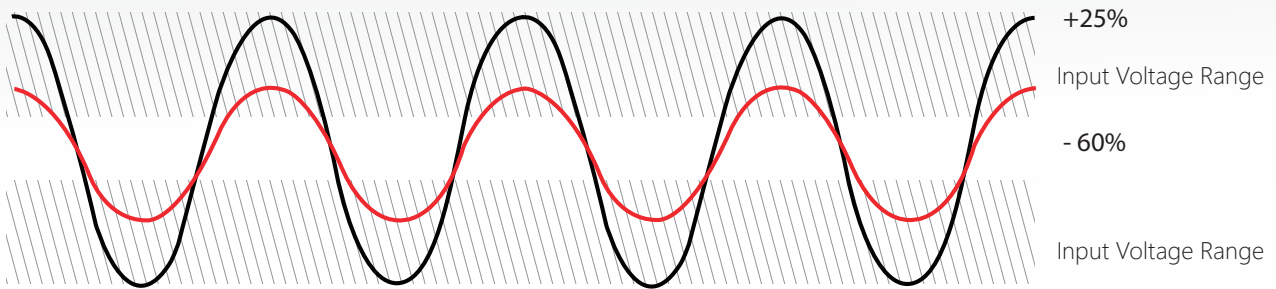


CCTV

SINGLE PHASE UPS

GREEN POWER AND ADVANCED TECHNOLOGY

- AC / AC efficiency over 95.5%, lower operating costs and more energy savings;
- Output power factor 1, more power to connect more loads;
- Fully digital control technology;
- Advanced 3-level inverter technology;
- High input power factor up to ≥ 0.996 and THD $< 3\%$;
- Less energy pollution towards the network;
- Use both rack and tower;
- Compact design and small footprint (6-10kW only 2U).



Wide window of network tolerance

LCD DISPLAY

- The digital display can be easily rotated by setting to be adapted to vertical/horizontal installation;
- Output voltage 208/220/230/240 Vac, 50/60Hz, ECO mode, all parameters can be set on site;
- Information on alarms and UPS status can be checked from the LCD display.



HORIZONTAL DISPLAY



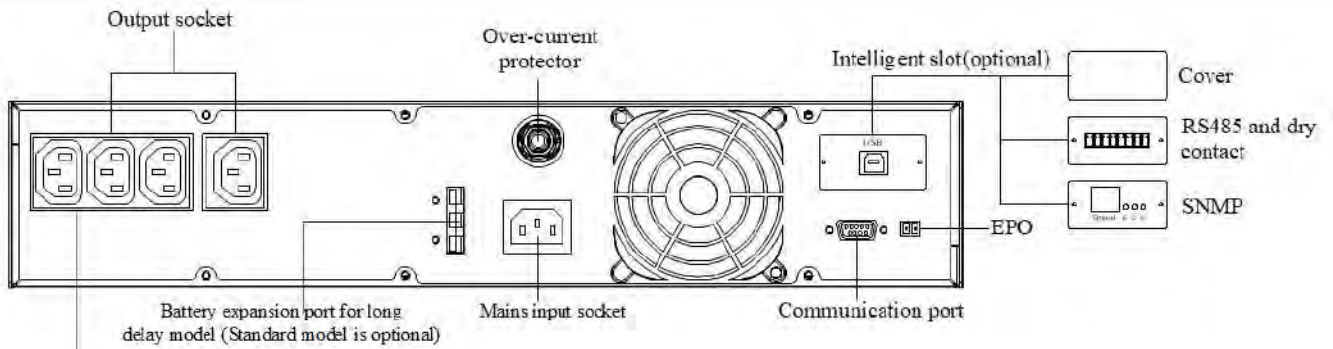
VERTICAL DISPLAY



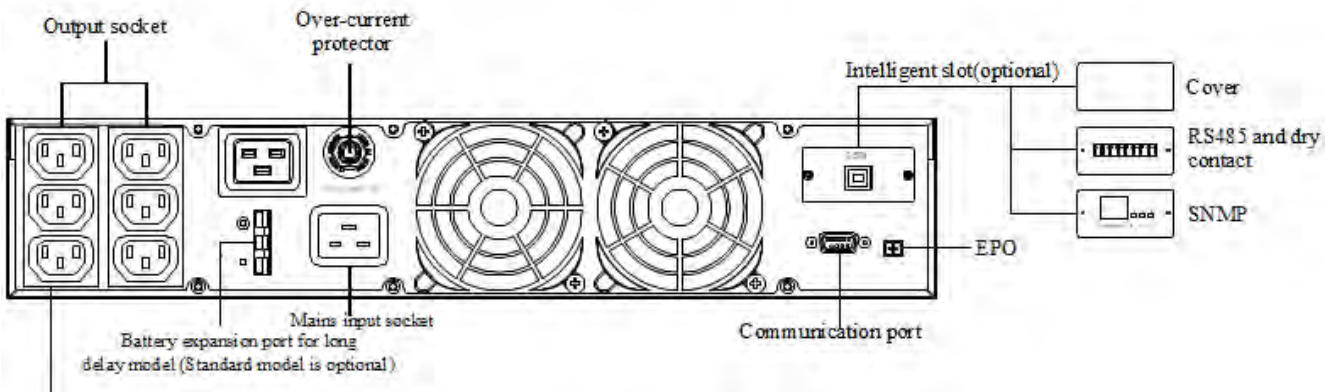
HOT-SWAPPABLE BATTERY DESIGN

- The external battery is optional;
- Easy replacement of the hot battery;
- Flexible rear panel configuration;
- The free contact cards and SNMP are optional;
- Intelligent RS232 + USB + EPO;
- ECO function;
- External battery port available.

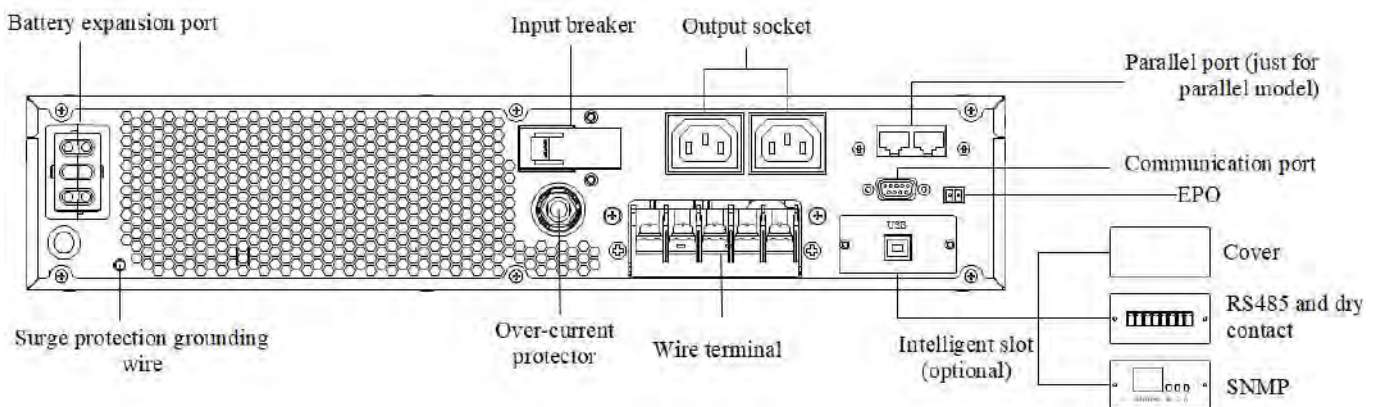
IST3-J 1KVA



IST3-J 2-3KVA



IST3-J 6-10KVA



TECHNICAL SPECIFICATIONS

MODELS	IST3100010J IST3100010J-L	IST3100020J IST3100020J-L	IST3100030J IST3100030J-L	IST3100060J	IST3110010J
INPUT					
VOLTAGE (VAC)	120~295			80~275	
FREQUENCY (HZ)	50/60± 10% (50/60Hz auto-sensing)				
POWER FACTOR	≥0.99				
THDI	<3%				
OUTPUT					
CAPACITY (VA)	1000	2000	3000	6000	10000
AC/AC EFFICIENCY MAX.	92.00%	92.5%	93.3%	95.5%	
POWER FACTOR	1				
VOLTAGE (VAC)	208/220/230/240±1% (settable on display panel)				
FREQUENCY (HZ)	50/60±0.2% (battery mode)				
THDV	THD <2% (linear load), THD < 5% (nonlinear load)			THD <1% (linear load), THD < 4% (nonlinear load)	
TRANSFER TIME (MS)	0				
BATTERIES					
VOLTAGE (VDC)	24/36	48/72	72/96	192~240	
BATT TYPE	2× 9AH 12V	4× 9AH 12V	6× 9AH 12V	16× 9AH 12V (16~20 units settable)	
CHARGER CURRENT (A) MAX.	1-4	1-4	1-4	1/1~8 (settable)	
OTHERS					
COMMUNICATION INTERFACE	RS232+EPO+USB (slot) (SNMP, RS485+ Dry contact are optional in slot)				
LCD DISPLAY	AC input & output voltage, Frequency, Load level, Battery level, Temperature; AC mode, Battery mode, Bypass mode, and Fault				
ALARM	Low battery, Abnormal AC input, UPS failure, etc.				
PROTECTION	IP21, Low battery, overload, short-circuit and over temperature, etc.				
NOISE (DB)	< 50		< 55		
WORKING TEMPERATURE (°C)	-5~40				
RELATIVE HUMIDITY	0 ~ 95%				
DIMENSION (W×D×H) (MM STANDARD/ LONG BACKUP)	438×413×2U	438×413×2U (UPS)+ 438×413×2U (Batt. pack) /438×413×2U (UPS)		438×500×2U (UPS)+ 438×500×3U (Batt. pack)	
WEIGHT (KG)	11/5.8	7.2+13/8	7.2+17.5/8	10.6+45/10.6	12.2+45/12.2

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SERIES IST 8 LITHIUM

POWER RANGE
1-3kVA



kW = kVA

95,5%
Efficiency



UPS ONLINE WITH LITHIUM BATTERIES

The UPS **single-phase lithium IST8** (1-3kVA) are the range of rack UPS with lithium produced by AEC, in powers from 1kVA up to 3kVA. The UPS IST8 series adopts the most innovative lithium-ion battery technologies, guaranteeing a lifespan of the UPS system **up to 10-12 years**.

Uninterruptible power supplies lithium are available in models with **internal batteries** or combined with **external battery cabinets** for longer runtimes. IST8 is capable of withstanding **temperatures up to 60°** without risking damage to the batteries. **USB card** included and product covered by a 3-year warranty. The product complies with the **CEI 0-16 standard**.

IDEAL FOR



HEALTH CARE



INDUSTRY



RACK CABINET



SERVER



CCTV

SINGLE PHASE UPS

LITHIUM-ION BATTERIES

- Guaranteed very long autonomy;
- 13 minutes of autonomy time with internal battery;
- Wide range of temperatures allowed;
- Temperatures up to 60°C without damage to internal batteries;
- Lightweight and compact UPS;
- Weight reduced by 60% compared to lead batteries;
- Long MTBF life of the system;
- Over 10 years of battery life;
- Up to 1000 charge/recharge cycles;
- Eco-friendly;
- Lithium-ion batteries are more environmentally friendly.



GREEN POWER AND ADVANCED TECHNOLOGY

- AC / AC efficiency over 95.5%, lower operating costs and more energy savings;
- Output power factor 1, more power to connect more loads;
- Fully digital control technology;
- High input power factor up to ≥ 0.996 and THD $< 3\%$;
- Less energy pollution up to 60 ° without damage to the batteries.

LCD DISPLAY

- The digital display can be easily rotated by setting to be adapted to vertical/horizontal installation;
- Output voltage 208/220/230/240 Vac, 50/60Hz, ECO mode, all parameters can be set on site;
- Information on alarms and UPS status can be checked from the LCD display.



HORIZONTAL DISPLAY

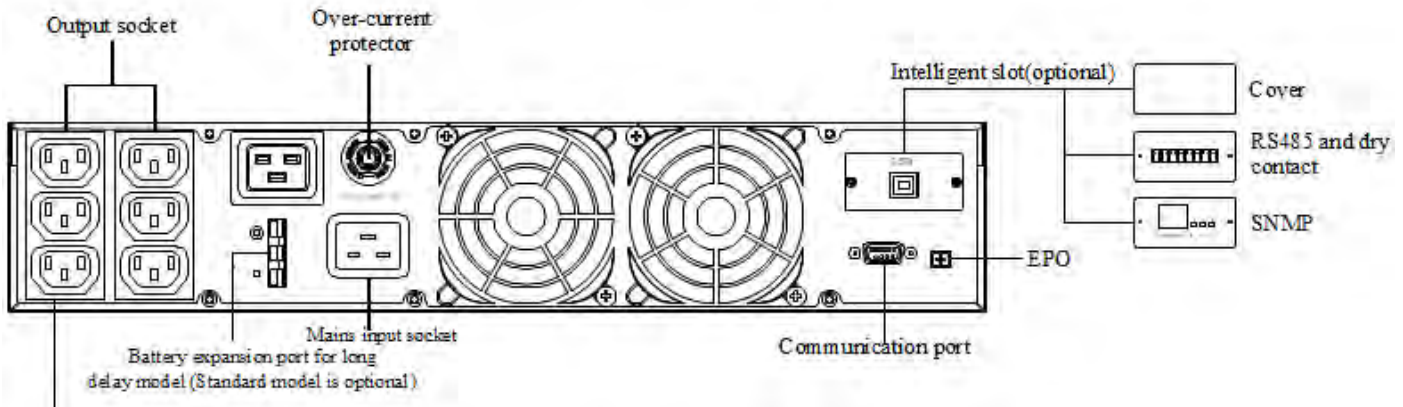


VERTICAL DISPLAY

COMPACT DESIGN

- Compact and space-saving, easy to transport and install;
- Weight reduced by 60% compared to VRLA lead batteries;
- 10-12 years of battery life.
- Use both rack and tower;
- Compact design, weight and footprint reduced by 60%.

IST8 1-2-3KVA



TECHNICAL SPECIFICATIONS

MODELS	IST81000-LI	IST82000-LI	IST83000-LI
INPUT			
VOLTAGE (VAC)	60-148		
FREQUENCY (HZ)	50/60± 10% (50/60Hz)		
POWER FACTOR	≥0.99		
THDI	<5%		
OUTPUT			
CAPACITY (W/VA)	1000/1000	2000/2000	3000/3000
AC/AC EFFICIENCY	91.7%	92.5%	95.5%
POWER FACTOR	1		
VOLTAGE (VAC)	208/220/230/240±1%		
FREQUENCY (HZ)	50/60±0.1		
THDV	<3%		
TRANSFER TIME(MS)	0		
ECO MODE	Yes		
OVERLOAD	101%~115% for 1 min, 116%~133% for 1 s, above 134% for 200ms		
LITHIUM-ION BATTERY			
VOLTAGE (VDC)	24	48	72
BACKUP TIME (MINS)	11	11	11
CHARGING CURRENT (A) MAX.	4		
OTHERS			
COMMUNICATION INTERFACE	USB and SNMP (slot) (RS232+dry contact is optional in slot)		
OUTPUT OUTLET	(8) 5-15R	(6) 5-20R	(4) 5-20R + (1) L5-30R
DISPLAY	LCD		
PROTECTION	Battery under-voltage protection, overload protection, short-circuit protection, over-temperature protection, input over-voltage protection		
NOISE (DB)	< 55		
WORKING TEMPERATURE	0°C~60°C		
RELATIVE HUMIDITY	0 ~ 95%		
DIMENSION (W×D×H) (MM)	438×420×87	438×570×87	438×570×87
WEIGHT (KG)	8.9	13.6	19.1

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SERIES IST 9

POWER RANGE
10-20kVA



kW = kVA

96%
Efficiency



UPS ONLINE TOWER-RACK

UPS **rack 19" IST9** (10-20kVA) are AEC's range of three-phase rack online UPS, in starting from 10kVA up to 20kVA. The UPS IST9 series adopts the most innovative technologies with **3 IGBT levels**, guaranteeing an efficiency of up to 96% and a unitary output power factor.

IST9 can be configured in input/output mode **1\1 or 3\1 or 3\3** directly from the display. Compact 19" rack UPS, only 3U in rack cabinet height. The system includes a **distribution module and a manual bypass disconnect** for ease of maintenance.

IDEAL FOR



HEALTH CARE



INDUSTRY



RACK CABINET



SERVER

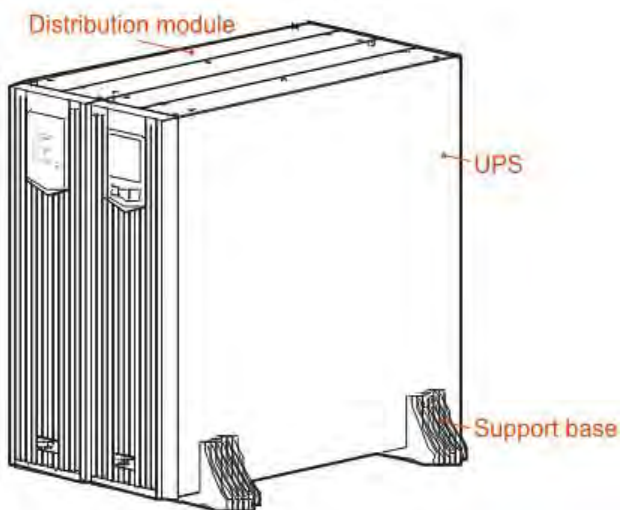
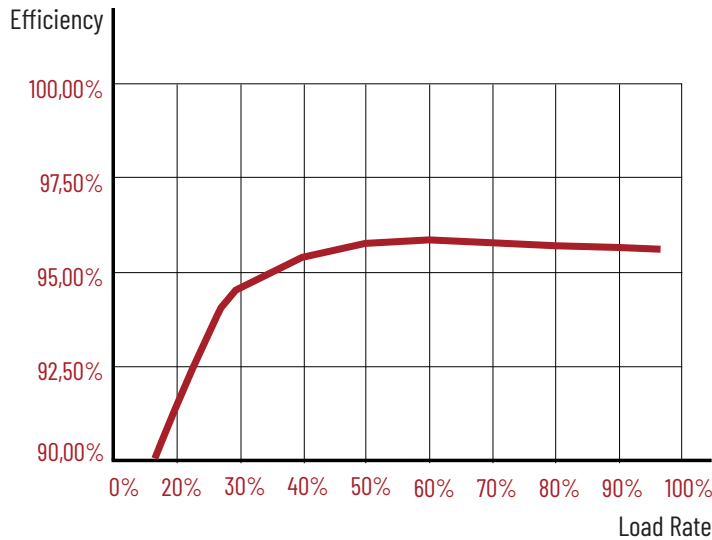
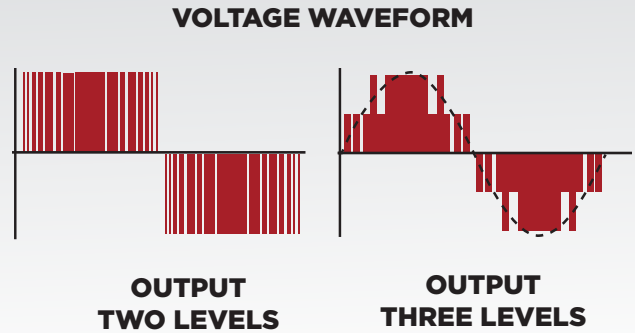


DATA CENTER

THREE-SINGLE PHASE UPS

EXCELLENT PERFORMANCE

- Flexible configurations settable on site with input / output 1: 1/3: 1/3: 3 with high input power factor ≥ 0.996 ;
- 3-level UPS with IGBT technology and output power factor up to 1 for a better load capacity at the same power with lower and more convenient initial investment costs;
- Full digital control technology with low THDi: $< 3\%$.



USER-FRIENDLY

- Compact and space-saving design, it is easy to transport, install and use;
- Both rack and tower installation.

WIDE FLEXIBILITY

- Up to 4 units connectable in parallel;
- Tower and rack compatible design;
- 24-40 adjustable battery configuration;
- Battery charger current up to 10A;
- Smart RS485 + EPO;
- ECO function.



IST9 10-20KVA

RACK:



TOWER:



TECHNICAL SPECIFICATIONS

MODELS	IST9100	IST9150	IST9200
INPUT			
VOLTAGE (VAC)	80-280 (L-N) or 138-485 (L-L)		
FREQUENCY (HZ)	40-70		
POWER FACTOR	≥0.99		
THDI	<3%		
OUTPUT			
CAPACITY (KVA)	10	15	20
MAX. AC/AC EFFICIENCY	96,00%		
POWER FACTOR	1.0		
VOLTAGE (VAC)	220/230/240±1% (L-N) or 380/400/415±1% (L-L)(settable)		
FREQUENCY (HZ)	50/60±0.1		
THDV	THD <2% (linear load), THD < 4% (nonlinear load)		
TRANSFER TIME (MS)	0		
ECO MODE	Yes		
OVERLOAD	115%~130% load for 15mins, 130%~150% load for 1min, above 150% load for 200ms		
BATTERIES			
VOLTAGE (VDC)	±192 (±144~±240 adjustable)		
CHARGING CURRENT (A)	4 (1-10 settable)		
OTHERS			
COMMUNICATION INTERFACE	RS485+EPO (RS232+Dry contact, SNMP are optional in slot)		
DISPLAY	LCD		
ALARM	Low battery, abnormal AC input, UPS failure, etc.		
PROTECTION	Low battery, overload, short-circuit and over temperature, etc.		
NOISE (DB)	< 55		
TEMPERATURE (°C)	-5~40		
RELATIVE HUMIDITY	0 ~ 95%		
DIMENSIONS (W×D×H) MM	UPS	438×500×130(3U)	
	Distribution Box	438×500×130(3U)	
WEIGHT (KG)	UPS	20	
	Distribution Box	8	

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

SERIES IST 7

POWER RANGE
10-40kVA



kW = kVA

96%
Efficiency



UPS ONLINE THREE PHASE

The **UPS three-phase** IST7 (10-40kVA) are AEC's three-phase online UPS, double conversion tower UPS in powers from 10kVA up to 40kVA. The UPS IST7 series adopts the most innovative technologies with **3 IGBT levels**, guaranteeing an efficiency of up to 96% and a unitary output power factor.

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

IDEAL FOR



HEALTH CARE



INDUSTRY



TRANSPORT



SERVER



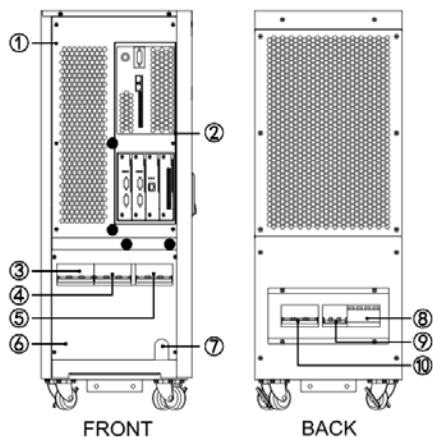
DATA CENTER

THREE-SINGLE PHASE UPS

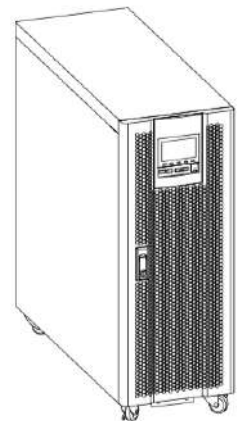
MAXIMUM POWER

- Three-phase UPS with 3-level IGBT rectification technology;
- Double conversion online UPS with modular design;
- Can be upgraded on site from 10 up to 40 kVA;
- Output power factor 1 without transformer saving on energy consumption;
- Accepts unbalanced three-phase loads up to 100%;
- Flexible configuration on site 1: 1, 3: 1, 3: 3;
- Online UPS with 96% efficiency;
- Innovative self-cleaning function that periodically expels the dust from the module, reducing breakdowns;
- Fully settable from the touch screen display on site and with an intuitive interface;
- Built-in black box that periodically records the waveforms on the display;
- Full digital interconnection and advanced DSP control technology;
- Easy to use security features and alarm alerts;
- Small footprint and ecological design;
- Hot-swappable battery packs.

IST7 10-40KVA



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. SURGE PROTECTION DEVICE (OPTIONAL);
9. SURGE PROTECTION BREAKER (OPTIONAL);
10. MAINTENANCE BUPASS BREAKER.



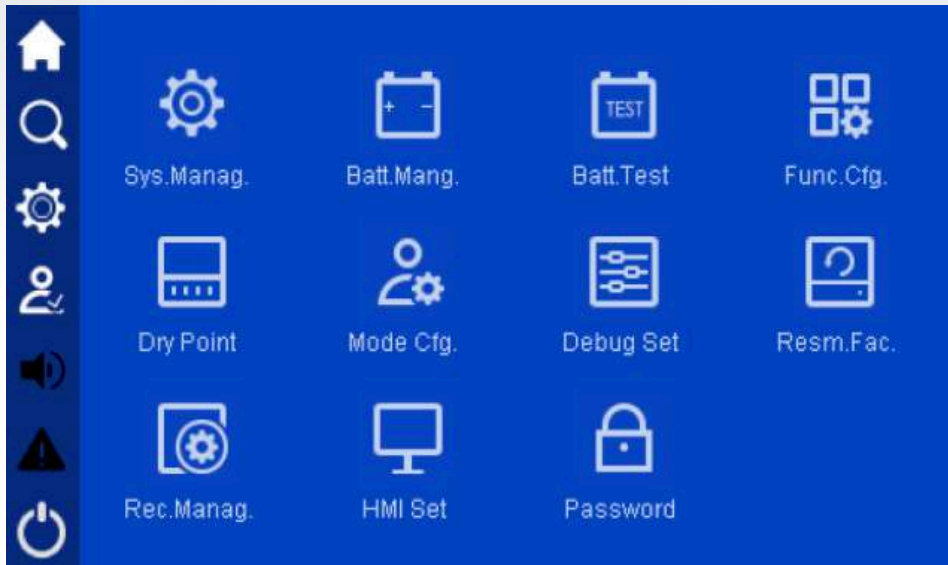
10-20KVA



30-40KVA

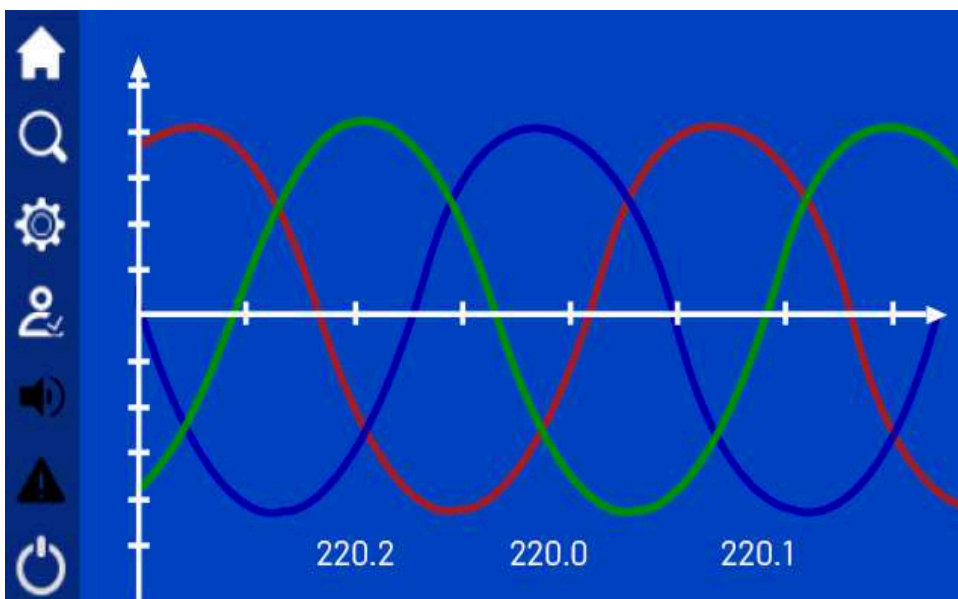
SETTABLE DISPLAY

Thanks to the advanced display, the UPS of the IST7 series are totally configurable from the display directly on site without the need for a PC or specialized software.



BLACK BOX

The operating system incorporated in the computerized display is able to analyze and record the **waveforms** of the individual components of the UPS throughout its active life. Through the display it is possible to view, on the color screen, all the waveforms generated and passing through the individual components, simplifying the localized identification of problems or distortions of all kinds inside and outside the apparatus.



TECHNICAL SPECIFICATIONS

MODELS	IST7010 IST7010-L	IST7020 IST7020-L	IST7030 IST7030-L	IST7040 IST7040-L
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INPUT

VOLTAGE (VAC)	80 - 280 (L-N) / 138-485 (L-L)			
FREQUENCY (HZ)	40~70			
BYPASS VOLTAGE (VAC)	380/400/415: -20%~+15%			
POWER FACTOR	≥0.99			
THDI	≤3%			
PHASE	3:3 / 3:1 / 1:1			

OUTPUT

CAPACITY (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			
UNBALANCE 3-PHASE VOLTAGE STABILIZATION WITH FULL LOAD	≤2%			
WAVEFORM	Pure sine wave, THD<1% at linear			
EFFICIENCY	96%			
OVERLOAD	110% load for 60mins; 116%~130% load for 10mins; 155% load for 1min; >155% load for 200ms			

BATTERY

BATTERY VOLTAGE (VDC)	±192 (±96~±240 settable) / ±192 (±144~±240 settable)			
BATT TYPE	16~40*9AH/12V	24~40*9AH/12V	48~80*9AH/12V	48~80*9AH/12V
CHARGING CURRENT (A)	1-10 / 1-20 (settable)			

OTHERS

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)	<55			
WORKIN TEMPERATURE (°C)	-5~40			
RELATIVE HUMIDITY	0~95%			
DIMENSION (W×D×H)(MM)	250x755x880		300x785x1250	
WEIGHT (KG)	143	143	240	

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

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%.

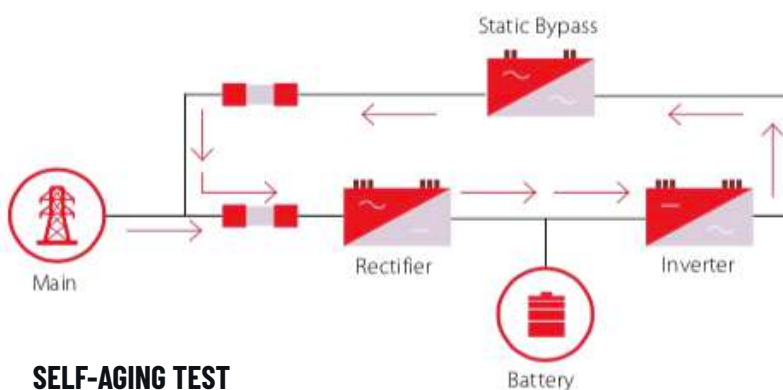


Compare to normal size in the market



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.

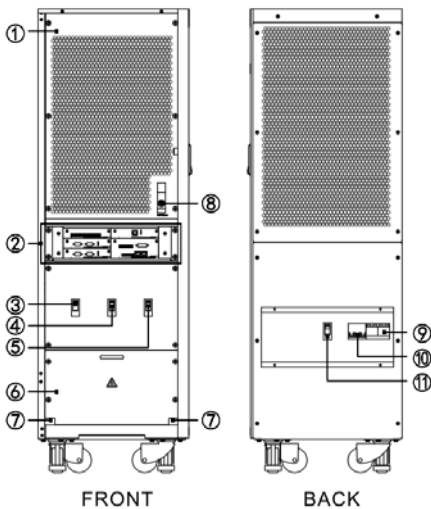
Let's take an example of a 120kVA AEC UPS working at full load H24, comparing it with a competitor's UPS with standard 92% efficiency:



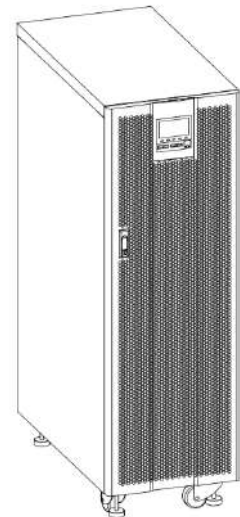
- **Daily saving energy:**
 $(120\text{kVA} \cdot 1 \cdot 96\% - 120\text{kVA} \cdot 0.8 \cdot 92\%) \cdot 24 \text{ hours} = 645.12 \text{ kWh};$
- **Daily saving money:**
 $645.12 \text{ kWh} \cdot 0.1\text{€}/\text{kWh} = 64.512\text{€};$
- **Yearly saving energy:** $645.12 \text{ kWh} \cdot 365 \text{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

23.546,88 € per year

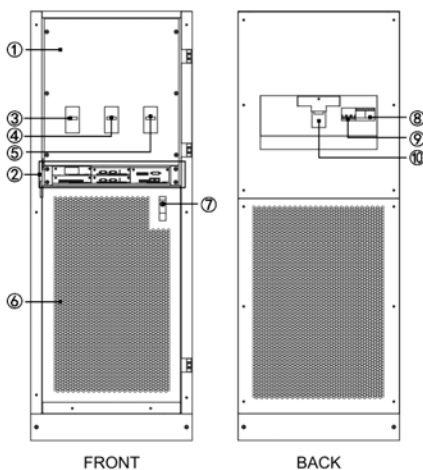
IST7 50-120KVA



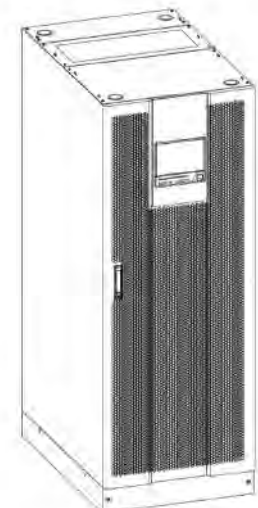
1. TOP COVER PLATE;
2. CONTROL UNIT;
3. POWER BREAKER;
4. BYPASS BREAKER;
5. OUTPUT BREAKER;
6. WIRING COVER PLATE;
7. WIRING HOLES OF COMMUNICATION WIRES;
8. BATTERY SLOW START BOTTON;
9. SURGE PROTECTION DEVICE (OPTIONAL);
10. SURGE PROTECTION BREAKER (OPTIONAL);
11. MAINTENANCE BUPASS BREAKER.



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
INPUT						
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 ϕ 4W+PE					
OUTPUT						
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 ϕ 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					
BATTERIES						
BATTERY VOLTAGE (VDC)	±192/±216 (±180/±204/±216/±228/±240 settable)					
BATT TYPE	External					
CHARGING CURRENT (A)	1-30			1-40		
OTHERS						
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.

SERIES IST 6

POWER RANGE
50-600kVA



UPS MODULAR THREE PHASE

Uninterruptible power supplies **modular IST6** (25-600kVA) are AEC's three-phase modular UPS, UPS with **modules hot extractable**, in powers starting from 25kVA up to 600kVA. The UPS IST6 series adopts a completely modular technology, ensuring **constant redundancy** of the UPS.

Their modularity allows **future expansion** in power up to 2.4MW. Available in **three sizes**, up to 125kVA, 300kVA and 600kVA and with an efficiency of up to 96% and maximum safety, IST6 is designed for **medium and large data centers**. Configurable directly from the display, wide 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.

IDEAL FOR



HEALTH CARE



INDUSTRY



SERVER

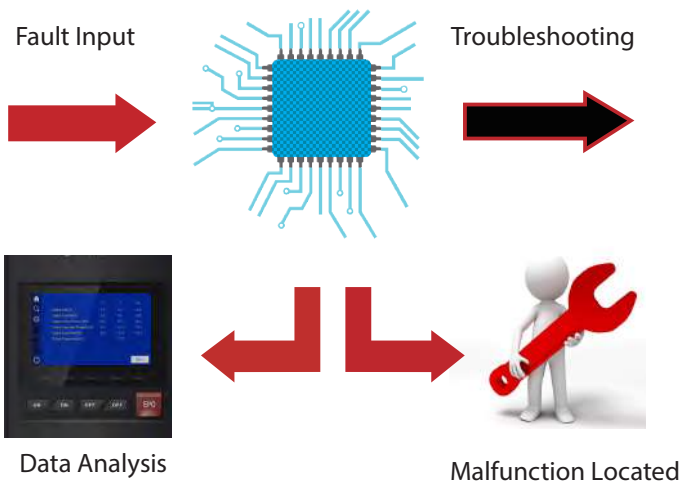
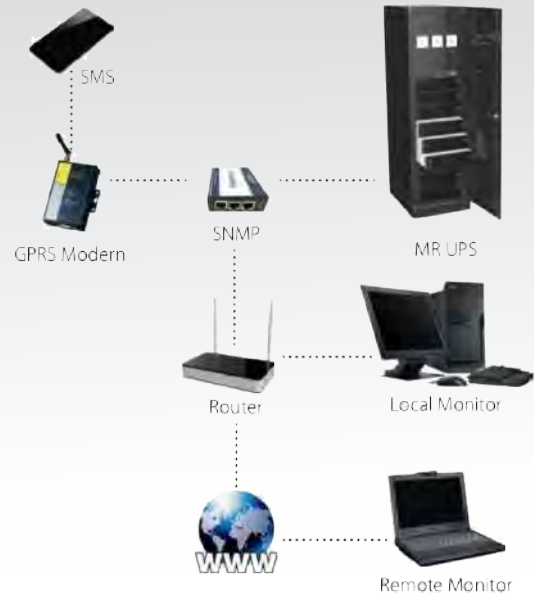


DATA CENTER

THREE PHASE UPS

FULL DIGITAL CONNECTION

- Advanced dual DSP control technology, hot-swap power increase, accurate and fast data processing.
- Optimized circuit design, preventative self-diagnosis, and fast fault remediation.
Greater reliability and efficiency;
- Parallel redundancy system, online power increase available to implement the N + X parallel internal configuration.



SAFETY SYNCHRONIZED

- Safe and reliable parallel digital smooth flow technology, powerful anti-interference filters deliver clean energy to protected loads;
- It has a BSC output to solve any unsynchronized power supply network problems;
- The construction criteria of the power modules use carefully selected high-strength materials to ensure the reliability of the modules and their replacement and/or hot addition.

ROTATING MODULE

- Automatic stand-by mode of the power modules that improves efficiency and reduces operating costs;
- Output power factor of 1, better cost effectiveness and compliance;
- The maintenance cycle prolongs the life of the batteries and increases the overall efficiency of the system.



TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS				
MODELS	IST6125	IST6200	IST6300	
POWER MODULE	IST625-J	IST650-J		
INPUT				
RATED VOLTAGE (VAC)	380/400/415			
VOLTAGE RANGE (VAC)	L:L 138~485			
INPUT FREQUENCY (HZ)	40-70			
BYPASS VOLTAGE RANGE (VAC)	-15% (-20%/ -30% optional) ~+15%(+10% /+20% optional)			
POWER FACTOR	≥0.99			
THDI	<5% (nonlinear, full load)			
PHASE	3φ4W+PE			
BATTERY VOLTAGE (VDC)	±192 (±180~ ±276 settable)	±240 (±180~ ±276 settable)		
CHARGING CURRENT (A)	N×10 Maximum (N: the number of power modules)			
OUTPUT				
CAPACITY (KVA)	125	200	300	
POWER FACTOR	1			
PHASE	3φ4W+PE			
WAVEFORM	sine wave			
VOLTAGE (VAC)	L-L:380,400,415 ±1%			
FREQUENCY (HZ)	50/60± 0.2%			
THREE PHASE DIFFERENCE	≤2 degrees			
THDV	≤1% (linear load, full load), ≤4% (nonlinear load, full load)			
MAX. SYSTEM EFFICIENCY	96%			
PARALLEL MODE	N+1 redundancy			
OVERLOAD CAPACITY	105-115% load for 60mins, 116%-130% load for 10mins, 131%-150% load for 1 min, over 150% load transfer to bypass			
OTHERS				
OPERATING TEMPERATURE (°C)	0~40			
RELATIVE HUMIDITY	0%~95%			
COMMUNICATION FUNCTION	RS485, RS232, dry contact (SNMP optional)			
NOISE (DB)	< 65	<70		
POWER MODULE (KVA)	25	50		
"POWER MODULE DIMENSION (W×D×H) MM"	500x700x130			
POWER MODULE WEIGHT (KG)	32	33		
DIMENSION (W×D×H) (MM)	600×900×1400	600×860×2000		
WEIGHT (KG)	UPS	162	224	236
	Bypass Module	20	23	27
	Power Module	32	33	
	Total	347	379	461

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS				
MODELS	IST6400	IST6500	IST6600	
POWER MODULE	IST650-J			
INPUT				
RATED VOLTAGE (VAC)	380/400/415			
VOLTAGE RANGE (VAC)	L:L 138~485			
INPUT FREQUENCY (HZ)	40-70			
BYPASS VOLTAGE RANGE (VAC)	-15% (-20%/ -30% optional) ~+15%(+10% /+20% optional)			
POWER FACTOR	≥0.99			
THDI	<5% (nonlinear, full load)			
PHASE	3φ4W+PE			
BATTERY VOLTAGE (VDC)	±240 (±180~ ±276 settable)			
CHARGING CURRENT (A)	N×10 Maximum (N: the number of power modules)			
OUTPUT				
CAPACITY (KVA)	400	500	600	
POWER FACTOR	1			
PHASE	3φ4W+PE			
WAVEFORM	sine wave			
VOLTAGE (VAC)	L-L:380,400,415 ±1%			
FREQUENCY (HZ)	50/60± 0.2%			
THREE PHASE DIFFERENCE	≤2 degrees			
THDV	≤1% (linear load, full load), ≤4% (nonlinear load, full load)			
MAX. SYSTEM EFFICIENCY	over 96%			
PARALLEL MODE	N+1 redundancy			
OVERLOAD CAPACITY	105-115% load for 60mins, 116%-130% load for 10mins, 131%-150% load for 1 min, over 150% load transfer to bypass			
OTHERS				
OPERATING TEMPERATURE (°C)	0~40			
RELATIVE HUMIDITY	0%~95%			
COMMUNICATION FUNCTION	RS485, RS232, dry contact (SNMP optional)			
NOISE (DB)	<70			
POWER MODULE (KVA)	50			
"POWER MODULE DIMENSION (W×D×H) MM"	500x700x130			
POWER MODULE WEIGHT (KG)	33			
DIMENSION (W×D×H) (MM)	1200×860×2000			
WEIGHT (KG)	UPS	427		
	Bypass Module	27	31	31
	Power Module	33		
	Total	718	788	873

POWER SUPPLY CPSS EN 50171



CENTRAL POWER SUPPLY SYSTEM - CPSS

The **Central Power Supply System - CPSS** for emergency systems has been designed to provide lighting in the event of a power failure. A CPSS must comply with the EN 50171 standard for the protection of the power supply of emergency and safety systems.

The CPSS is a **centralized power supply system** designed specifically to be installed in emergency lighting systems and other emergency systems such as automatic fire-fighting systems, alarms, fume extraction equipment, carbon monoxide detection systems.

The **EN 50171** standard provides for the obligation to install CPSS in crowded places and in public places such as hospitals, schools, museums, cinemas, etc. to give visibility in the event of a blackout.



THE EN 50171 STANDARD



The EN 50171 standard applies to systems permanently connected to AC power supply voltages not exceeding 1000 V and which use batteries as an alternative energy source. The structure of the CPSS must also comply with the **CEI EN 62040** standard. The EN 50171 standard lists the technical characteristics that the CPSS must possess in order to be compliant.

FEATURES:

- **Batteries:**

The batteries used in the CPSS must have an expected life of at least 10-12 years;

- **Overload:**

The inverters used in the CPSS must be able to handle a constant overload of 120%;

- **Charging time:**

The chargers used must recharge the batteries within 12 hours, starting from a low battery condition;

- **Resistance of the casing:**

The casing of the CPSS must have excellent mechanical strength, able to withstand heat and fire.

ADVANTAGES:

- Reduction of investment and maintenance costs;
- Simplification of the system and periodic test operations;
- No limitation to the output power;
- Long-term reliability.

CPSS 3

POWER RANGE
1-10kVA



EN50171
Compliant

DETAILS:

- Constant overload at 120%;
- Batteries 10-12 years expected life;
- Charging time less than 12 hours;
- Structure compliant with EN 62040.

CENTRAL POWER SUPPLY SYSTEM CPSS3

The Central Power Supply for emergency systems CPSS3 (1-10kVA) uses the fully digital control technology and the latest high frequency conversion technology, thus presenting **high efficiency**, high power factor and other advantages. The CPSS 3 is a **tower Central Power Supply** which features significant energy savings and greatly reduces operating costs.

It has built-in functions such as AC regulation, back-up power, surge protection and other functions to **protect equipment** in rigid power grid environments and provide **clean energy**, safe and stable to loads.

TECHNICAL SPECIFICATIONS

MODELS	CPSS30100 CPSS3010-L	CPSS30200 CPSS3020-L	CPSS30300 CPSS3030-L	CPSS30600 CPSS3060-L	CPSS3100 CPSS3100-L
INPUT					
VOLTAGE (VAC)	120~295			80~275	
FREQUENCY (HZ)	50/60± 10% (50/60Hz auto-sensing)				
POWER FACTOR	≥0.99				
THDi	<3%				
OUTPUT					
CAPACITY (VA)	1000	2000	3000	6000	10000
MAX. AC/AC EFFICIENCY	92,00%	93,00%	94,00%	95,5%	
POWER FACTOR	0.8				
VOLTAGE (VAC)	208/220/230/240±1% (selectable on display panel)				
FREQUENCY (HZ)	50/60±0.2% (battery mode)				
BATTERIES					
VOLTAGE (VDC)	24 or 36/36	48 or 72/72	72 or 96/96	192/192~240	
BATT. TYPE	2×9Ah 12V	4×9Ah 12V	6×9Ah 12V	16×9Ah 12V	16×9Ah 12V
CHARGER CURRENT (A) MAX.	1-4	1-4	1-4	1~8	
BATTERY LIFE	10 - 12 years				
OTHERS					
OVERLOAD	Constant at 120%				
CHARGING TIME	< 12 hours				
COMPLIANCE	Structure compliant with the CEI EN 62040 standard				
NOISE (DB)	<50	<55			
TEMPERATURE (°C)	-5~40				
RELATIVE HUMIDITY	0 ~ 95%				
DIMENSION (W×D×H) MM	145×360×225	190×400×330		190×422×337	230×502×553
WEIGHT (KG)	9.2 or 11.6/4.5	17.7 or 22.4/8.5	22.9 or 27.6/9.2	54.5/10.9	56.2/12.5

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

CPSS 7

POWER RANGE
10-40kVA



EMERGENCY

EN50171
Compliant

DETAILS:

- Constant overload at 120%;
- Batteries 10-12 years expected life;
- Charging time less than 12 hours;
- Structure compliant with EN 62040.

CENTRAL POWER SUPPLY SYSTEM CPSS7

The Central Power Supply for emergency systems **CPSS7** (10-40kVA) is a static CPSS. It utilizes advanced **3-level inverter technology** and digital technology for complete interconnection, offering benefits such as high efficiency and high power density while only taking up a small amount of floor space.

AEC's CPSS provide **safe, stable, clean and ecological energy** to loads and are considered ideal for providing completely safe and reliable protection, particularly suitable for **data centers, IT server rooms and precision tools**.

CPSS EN 50171

CPSS EN 50171

1:1

PHASE

3:1

PHASE

3:3

PHASE

TECHNICAL SPECIFICATIONS

MODELS	CPSS7010 CPSS7010-L	CPSS7020 CPSS7020-L	CPSS7030 CPSS7030-L	CPSS7040 CPSS7040-L
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INPUT

VOLTAGE (VAC)	80 - 280 (L-N) / 138-485 (L-L)			
FREQUENCY (HZ)	40~70			
BYPASS VOLTAGE (VAC)	380/400/415: -20%~+15%			
POWER FACTOR	≥0.99			
THDI	≤3%			
PHASE	3:3 / 3:1 / 1:1			

OUTPUT

CAPACITY (KVA)	10	20	30	40
POWER FACTOR	0.8			
VOLTAGE (VAC)	L - N: 220/230/240±1% L - L: 380/400/415±1%			
FREQUENCY (HZ)	50/60±0.1			
WAVEFORM	Pure sine wave, THD<1% at linear			
EFFICIENCY	96%			
OVERLOAD	Constant at 120%			

BATTERY

BATTERY VOLTAGE (VDC)	±192 (±96~±240 settable) / ±192 (±144~±240 settable)			
BATTERY TYPE	16~40*9AH/12V	24~40*9AH/12V	48~80*9AH/12V	48~80*9AH/12V
CHARGING CURRENT (A)	1-10 / 1-20 (settable)			
BATTERY LIFE	10 - 12 years			

OTHERS

CHARGING TIME	< 12 hours			
COMPLIANCE	Structure compliant with the CEI EN 62040			
NOISE (DB)	<55			
WORKIN TEMPERATURE (°C)	-0~40			
RELATIVE HUMIDITY	0~95%			
DIMENSION (W*D*H)(MM)	250x755x880		300x785x1250	
WEIGHT (KG)	143		240	

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

CPSS 7

POWER RANGE
50-200kVA



EN50171
Compliant

DETAILS:

- Constant overload at 120%;
- Batteries 10-12 years expected life;
- Charging time less than 12 hours;
- Structure compliant with EN 62040.

CENTRAL POWER SUPPLY SYSTEM CPSS7

The Central Power Supply for emergency systems **CPSS7** (50-200kVA) is a static CPSS. It utilizes advanced **3-level inverter technology** and digital technology for complete interconnection, offering benefits such as high efficiency and high power density while only taking up a small amount of floor space.

AEC's CPSS provide **safe, stable, clean and ecological energy** to loads and are considered ideal for providing completely safe and reliable protection, particularly suitable for **data centers, IT server rooms and precision tools**.

TECHNICAL SPECIFICATIONS

MODELS	CPSS7050	CPSS7080	CPSS7100	CPSS7120	CPSS7160	CPSS7200
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INPUT

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	3φ4W+PE					

OUTPUT

CAPACITY (KVA)	50	80	100	120	160	200
POWER FACTOR	0.8					
VOLTAGE (VAC)	L - N: 220/230/240±1% L - L: 380/400/415±1%					
FREQUENCY (HZ)	50/60±0.1 (battery mode)					
PHASE	3φ4W+PE					
WAVEFORM	Pure sine wave, THD<1% at linear					
EFFICIENCY	96%					
OVERLOAD	Constant at 120%					

BATTERIES

BATTERY VOLTAGE (VDC)	±192/±216 (±180/±204/±216/±228/±240 settable)					
BATTERY TYPE	External					
CHARGING CURRENT (A)	1-30			1-40		
BATTERY LIFE	10 - 12 years					

OTHERS

CHARGING TIME	< 12 hours					
COMPLIANCE	Structure compliant with the CEI EN 62040 standard					
NOISE (DB)	<65					
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.

CPSS 9

POWER RANGE
10-20kVA



EN50171
Compliant

DETAILS:

- Constant overload at 120%;
- Batteries 10-12 years expected life;
- Charging time less than 12 hours;
- Structure compliant with EN 62040.

CENTRAL POWER SUPPLY SYSTEM CPSS9

AEC's **CPSS9** (10-20kVA) Central Power Supply for emergency systems ensures stable and reliable power supply for the critical load. The CPSS 9 is available in **10-15-20kVA models** with **three-phase/single-phase input** and three-phase/single-phase output.

The CPSS 9 is both **Rack and Tower** for greater versatility in installation, making it the most compact and versatile range of CPSS (and not only) today. Parallelable up to 4 units, CPSS9 is able to support up to 80kVA of single-phase or three-phase load, covering a wide range of needs in various sectors.

CPSS EN 50171

CPSS EN 50171



TECHNICAL SPECIFICATIONS

MODELS	CPSS9100	CPSS9150	CPSS9200
INPUT			
VOLTAGE (VAC)	80-280 (L-N) or 138-485 (L-L)		
FREQUENCY (HZ)	40-70		
POWER FACTOR	≥0.99		
THDI	<3%		
OUTPUT			
CAPACITY (KVA)	10	15	20
MAX. AC/AC EFFICIENCY	96,00%		
POWER FACTOR	0.8		
VOLTAGE (VAC)	220/230/240±1% (L-N) or 380/400/415±1% (L-L)(settable)		
FREQUENCY (HZ)	50/60±0.1		
THDV	THD <2% (linear load), THD < 4% (nonlinear load)		
TRANSFER TIME (MS)	0		
ECO MODE	Yes		
OVERLOAD	Constant at 120%		
BATTERIES			
VOLTAGE (VDC)	±192 (±144~±240 adjustable)		
CHARGING CURRENT (A)	4 (1-10 settable)		
BATTERY LIFE	10 - 12 years		
OTHERS			
CHARGING TIME	< 12 hours		
COMPLIANCE	Structure compliant with the CEI EN 62040		
NOISE (DB)	< 55		
TEMPERATURE (°C)	-5~40		
RELATIVE HUMIDITY	0 ~ 95%		
DIMENSIONS (W×D×H) MM	UPS	438×500×130(3U)	
	Distribution Box	438×500×130(3U)	

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

ACCESSORIES FOR UPS



SNMP CARD

The **Simple Network Management Protocol (SNMP)** was created to have a simple communication of information through computer networks. SNMP is a standard protocol that is part of the Transmission Control Protocol/Internet Protocol (TCP/IP) compatible with **Internet and Intranet networks**.

The SNMP card allows AEC UPSs to be **remotely monitored**, assisted, tested and operated anywhere in the world. A SNMP website itself provides the user with all the information relating to the UPS in a clear and simple manner.

Through the SNMP card, AEC is also able to carry out **H24 checks** on each UPS, as part of ordinary and/or preventive maintenance contracts.



DRY CONTACT CARD

The **rélé or dry contact card** provides a series of potential-free normally open or normally closed contacts to signal the following UPS functions:

- UPS in bypass mode;
- No input network;
- UPS in Inverter mode;
- Batteries not suitable, a check is required;
- Presence of a generic alarm.

It is also possible to carry out shutdowns manual or automatic UPS remotely.



USB CARD

The **USB card** allows you to connect the UPS to all latest generation computers via a USB port on the PC. This card is essential if the UPS does not have the RS232 port and is compatible with all our UPS models.



BATTERIES FOR UPS



Using the latest innovative **Oxygen Recombination Technology**, AEC has used its 50 years of experience to design and produce the best battery on the market, with an expected life of 10 years on all models.

BATTERIES 12V AGM VRL

- Totally sealed and no hydrogen gas emissions in operation;
- No water topping during the battery life. In fact water addition is not allowed;
- No risk of electrolyte leakage because the electrolyte (diluted sulphuric acid) is absorbed in a glass-matt separator-AGM;
- Plates are robust as they are molded with a special alloys having different components that guarantee to the grids high mechanical resistance;
- Container and lid are made of ABS (Acrylonitrile Butadiene Styrene);
- Conformity to international standards such as JIS, UL, VDE, IATA;
- Batteries are designed for high discharge intensity;
- Design life 10 or 12 years in according to EUROBAT guide;
- Case: UL-94 HB or UL94-V0 flame retardant.

**AEC BATTERIES HAVE BEEN SPECIALLY DESIGNED TO FEED UPS
OR EMERGENCY SYSTEMS**

MODELS OF BATTERIES 12V

9Ah



24Ah



40Ah



60Ah



80Ah



100Ah



BATTERY CABINETS

The battery cabinet for UPS is an accessory designed **to extend the autonomy of the UPS**. Each UPS has its own external battery cabinet and the number of batteries varies according to the UPS model to which it will be connected.





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OCEANIA

Australia - New Zealand.

AEC REFERENCES

More than 50 years life AEC Company guarantees stability, quality and reputation.

List of references available in each country.

AEC, a Public Company listed from 1994 in Taiwan Stock Exchange (Stock code 1514:TT).



3 YEARS WARRANTY UPS



**24/7 LIVE ASSISTANCE
FOR INSTALLATIONS
AND REPARATIONS**



Uninterruptible **Power Supply**

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