



**We are
behind the Power**

UPS | **Uninterruptible
POWER SUPPLY**

CATALOG

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SERIES - IST3

1-10 kVA
UPS TOWER
DOUBLE CONVERSION



kW = kVA

95,5%
Efficiency

Single Phase Online UPS (1-10kVA)

The IST3 smart high frequency online UPS uses full digital control technology and the latest high frequency converter technology and has high efficiency, high power factor and other advantages. It has significant energy savings and greatly reduces operation costs. It has integrated functions such as AC regulation, backup power supply, surge protection, and other functions to provide protection to equipment in harsh power grid environments and provide clean, safe, and stable power to loads.



PF=
1.0



1:1
PHASE

APPLICATIONS



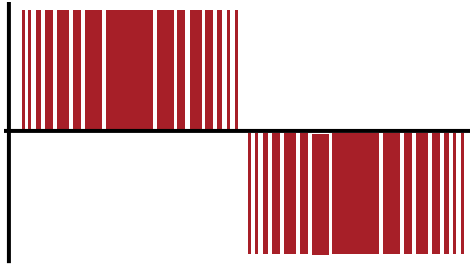
- **3 LEVEL IGBT TECHNOLOGY UPS**
- **95,5% EFFICIENCY AC-AC**
- **OUTPUT POWER FACTOR UP TO 1**
- **COMPACT AND SMALLER DESIGN**



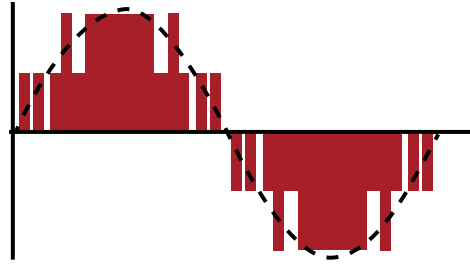
GREEN POWER



- Input power factor up to 0.996 and low THDi (< 3%) decrease pollution to city power;
- AC/AC efficiency up to 95,5%, energy saving and low carbon emission;
- Compliance with RoHS standard, innocuous and environmental friendly;
- Design in accordance to International EMC and Safety standard.



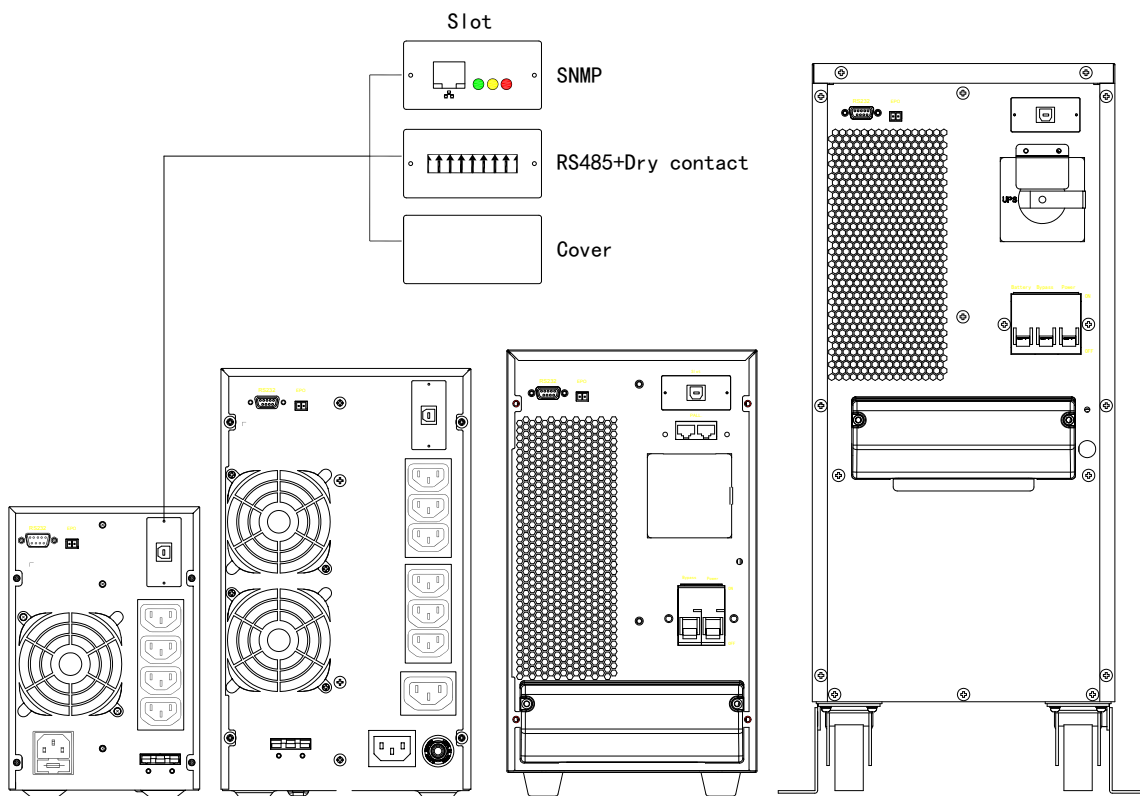
TWO LEVEL OUTPUT VOLTAGE WAVEFORM



THREE LEVEL OUTPUT VOLTAGE WAVEFORM

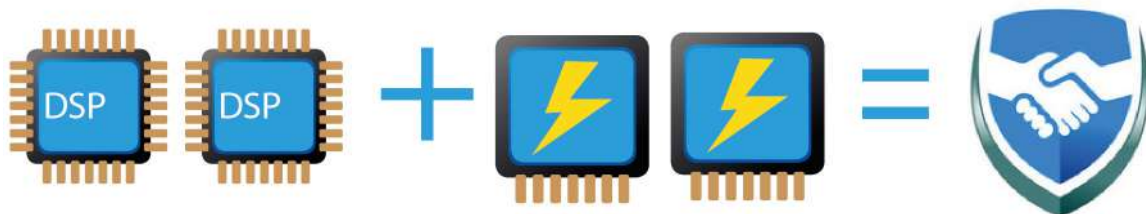
OUTSTANDING PROFITABILITY

- Minimum 0.05m footprint, save delivery cost and easy for installation;
- At least 10% more output power for your loads.



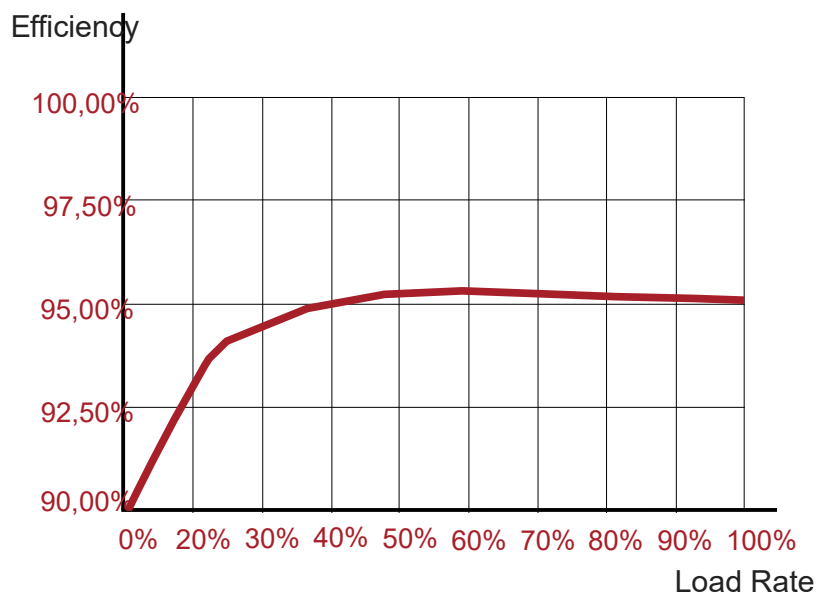
FULL DIGITAL CONTROL TECHNOLOGY

- Utilizes advanced DSP control technology, precision and fast data processing and has fast fault self-diagnosis and processing capabilities, as well as complete self-protection functions with high reliability;
- Improved circuit integration, optimized circuit designs, improved anti-interference capabilities, and stabler performance.



EXCELLENT PERFORMANCE

- Industry's leading overall system efficiency; overall full load system efficiency of up to 95% and half load efficiency of up to 90%; huge energy savings and greatly reduce client's operation costs;
- Output power factor can reach as high as 1; industry leading performance, better loading capacity for the same power; cost effective and low system investment costs;
- High power density, optimized structural design, smaller and more convenient, and reduces space usage;
- Flexible battery configurations, supports 16-20 batteries configured in any way, improves the life cycle of old batteries and improves maintenance efficiency (6KVA models and above).



WIDE FLEXIBILITY



- Ultra wide input voltage range, adaptable to different usage environments; use in harsh power environments with ease;
- Self adaptive to input frequency (50/60Hz), constant monitoring of power grid frequency; smart setup-free operation;
- Mains power grid is prioritized to prevent frequent switching between mains and battery to extend battery life.

COMPATIBLE GENERATOR



Generators are suitable for AC power input; poor quality electricity produced by the generator is effectively isolated to prevent grid pollution to provide clean, safe, and stable power to loads.

WARNING AND PROTECTION FUNCTIONS

- Automatic self-detection upon startup which discovers hidden faults in a timely manner to ensure equipment safety and avoid unnecessary loss;
- Complete protection and warning function sets off a sound and light alarm immediately to prevent hazards;
- Supports input neutral/live wire detection to prevent fire hazard from incorrect neutral and live wire connection and to ensure personnel and asset safety.

ECO FRIENDLY



- Reliable electromagnetic compatibility characteristics, certified by authoritative organizations, suitable for professional high frequency communication, and audio and video broadcasting applications
- Input power factor > 0.99, input harmonics < 3%; improved energy utilization and effectively avoids additional energy loss; eliminates power grid pollution and reduces energy costs. Smart Fan, High Efficiency Cooling.
- Multiple modes to control fan speed, extend the life of the fan and further improve efficiency and reduce power consumption.

LARGE HD SCREEN

- Well-proportioned visual effects, graphical interface, streamlined display, improved user experience;
- Supports host temperature display, making it more easier to monitor temperature changes; more manageable device safety.



DRY CONTACT SIGNAL

Variety of dry contact signals and communication functions:

- Standard communication: RS232, supports USB, SNMP, dry contact, EPO, etc;
- Smart monitoring of computers and the uninterruptible power supply can be implemented by a variety of communication methods to satisfy user's remote management needs. Complete communication management functions allows easy monitoring of device status.



3 YEARS WARRANTY UPS

TECHNICAL SPECIFICATIONS

MODELS	IST30100 IST3010-L	IST30200 IST3020-L	IST30300 IST3030-L	IST30600 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% (nonlinear load)			THD < 1% (linear load); THD < 4% (nonlinear 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 / External	4×9Ah 12V / External	6×9Ah 12V / External	16×9Ah 12V/ External (16~20 units settable)	16×9Ah 12V/ External (16~20 units settable)
CHARGER CURRENT (A) MAX.	1-4	1-4	1-4	1~8 (adjustable)	
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%, no condensation				
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

ALL INFORMATION CONTAINED IN THIS BROCHURE ARE PURELY INDICATIVE AND CANNOT BE USED TO FORM ANY CONTRACTUAL OBLIGATIONS. SPECIFICATIONS OR DESIGNS CAN BE CHANGED AT ANYTIME WITHOUT NOTICE.



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