



**We are
behind the Power**

**UPS | Uninterruptible
POWER SUPPLY**

CATALOG

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SERIES - IST6

25-600 kVA UPS MODULAR DOUBLE CONVERSION

Online Modular UPS (50-600kVA)

The IST6 series modularized 3-Phase in, 3-Phase out UPS utilizes advanced 3 level inverter technology, a more reliable redundancy design from the entire system down to the components, and digital technology interconnection. It has the advantages of high efficiency, high power density, easy scaling, scaling on demand, and occupies only a small amount of floor area and provides safe, reliable, and clear environmentally friendly power to loads.

APPLICATIONS



kW = kVA

96%
Efficiency



3:3
PHASE

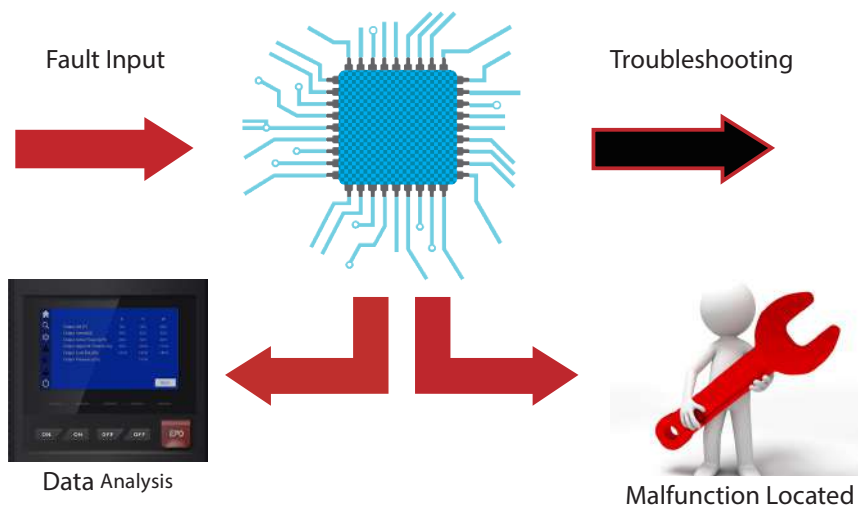
- MODULAR UPS;
- OUTPUT POWER FACTOR 1;
- ALL HOT-SWAPPABLE DESIGN SYSTEM;
- FULLY SETTABLE FROM DISPLAY ON SITE.



FULL DIGITAL CONNECTION

Full Digital Connection, Flexible Online Scaling:

- Advanced dual DSP control technology; accurate and fast data processing; optimized circuit design; fast fault self-diagnosis and repair capabilities; higher reliability;
- Online capacity scaling available without the need for additional attachments to implement N+X parallel connection. The system has the parallel redundancy and parallel capacity scaling modes making application much more flexible and compatible with more parallel connections;
- Safe and reliable digitalized digital parallel uniform stream technology; more balanced parallel loads ensures quality power is delivered to high demanding IT equipment and ensures safe operation of user equipment.



Synchronized and Unhindered, Guaranteed Safety:

- Has BSC output to solve the problem of unsynchronized power input;
- Pure digital technology; powerful anti-interference capabilities provides quality power to loads.

High Power Density, Optimized Structural Configuration

- Large 320kVA capacity for a single cabinet; occupies only 0.5 square meters of floor space, optimized structure design greatly reduces floor space usage and land investment costs;
- Has cable entry on the top of the cabinet to satisfy different scenarios;
- Host and battery equipped with protective mechanisms for reliable double layered protection;
- Module terminal uses carefully selected high strength material to ensure module reliability and hot swapping.

SAFETY SYNCHRONIZED

GRID ADAPTABILITY

Great Power Grid Adaptability:

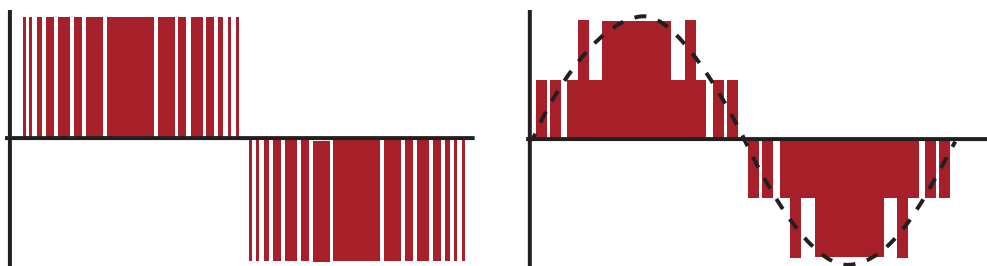
- Prevents frequent switching between power grid and battery power and extends battery life;
- Smart generator control gives a better generator configuration and control solution for better compatibility.



ENERGY SAVING DESIGN

Environmentally Friendly Energy Saving Design:

- Uses the latest IGBT rectifying technology with ultra-low input harmonics; eliminates power grid pollution, reduces power factor compensation and harmonic control costs and reduces wire attenuation. Protects the load as well as the power grid at the same time;
- Input power factor is close to power factor; improved energy utilization and reduced UPS front-end power distribution costs and client investment costs.



TWO LEVEL OUTPUT VOLTAGE WAVEFORM

THREE LEVEL OUTPUT VOLTAGE WAVEFORM

PROTECTIVE FUNCTIONS

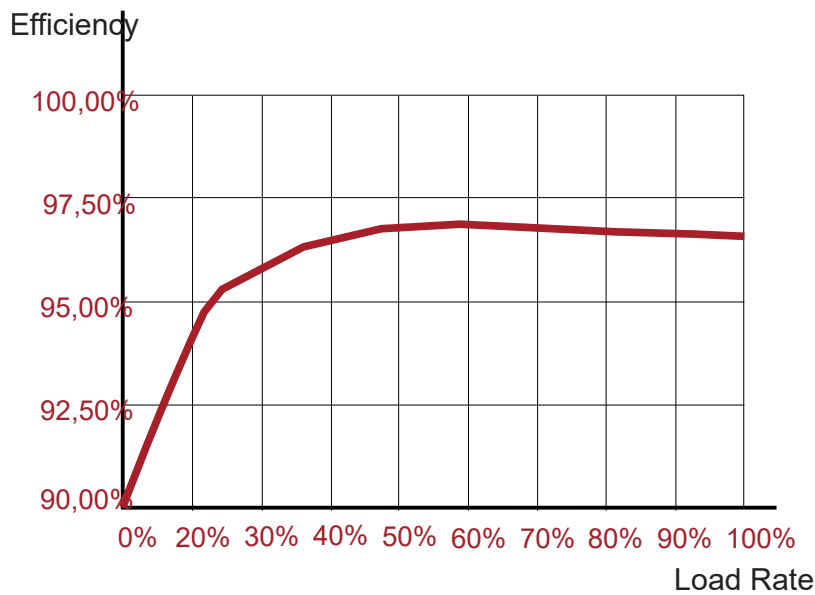
Complete Protective Functions and Failure Warning:

- Component failure pre-warning function, nips the problem of system failure and associated risks at the bud;
- Smart battery disconnection detection and battery circuit, abnormality warnings reduce operation and maintenance costs and risks.

OUTSTANDING METRICS

Outstanding Metrics, Improved Efficiency:

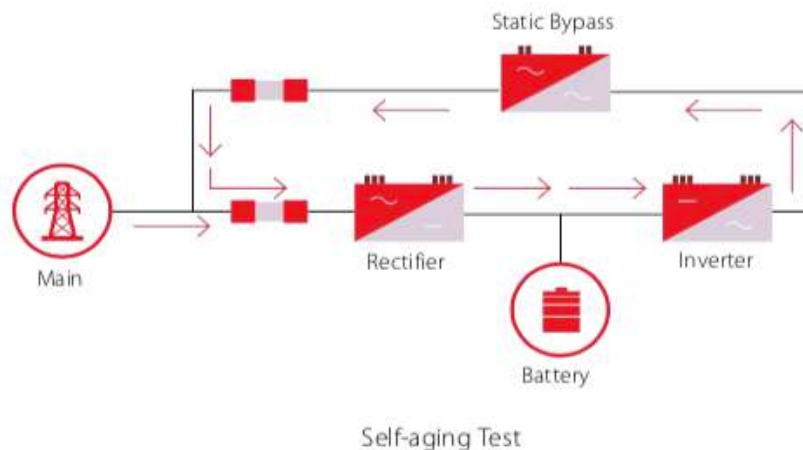
- Overall system efficiency of up to 96% with great energy savings (heat from the UPS and cooling energy consumption), reduced operation costs;
- Default power factor of 1.0; greater power output for the same price; better cost effectiveness and complies with the developing trend of increasing power factor for IT products;
- When the power quality from the mains grid is high, ECO mode can be used to provide power to the load. Overall system efficiency can reach up to 99% resulting in significant energy savings.



ROTATING MODULE

Highly Efficient Rotating Module Sleeping:

- Module sleep technology improves operation efficiency and reduces operation costs;
- Maintenance cycle effectively extends battery life and improves overall system efficiency.



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

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	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
	Power Module	33	
	Total	718	788



Uninterruptible **Power Supply**

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